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# OCEAN WEATHER STATION 'P'
# NORTH PACIFIC OCEAN

May 17 to August 15, 1968

## No. 12

1969 Data Record Series

## Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1969

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# OCEAN WEATHER STATION 'P'
# NORTH PACIFIC OCEAN

May 17 to August 15, 1968

CODC References: 02-68-005
02-68-007

## No. 12

1969 Data Record Series

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Canadian Oceanographic Data Centre
615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography

DEPARTMENT OF ENERGY, MINES AND RESOURCES
and
FISHERIES RESEARCH BOARD OF CANADA

# Ocean Weather Station "P" North Pacific Ocean

| | | |
|---|---|---|
| Ships: | CCGS "Vancouver" | CCGS "Quadra" |
| Local cruise designations: | P-68-2 | Patrol No. 4 |
| CODC cruise reference nos: | 02-68-005 | 02-68-007 |
| Cruise periods: | May 17-July 4, 1968 | June 28-Aug. 15, 1968 |
| Scientist-in-charge: | Dr. C.A. Collins | |
| Observers: | D.A. Healey<br>C. De Jong | Ship's crew |

MARINE SCIENCES BRANCH
and
PACIFIC OCEANOGRAPHIC GROUP
Nanaimo, B.C.

# SECTION I

## Description of data collection procedures

Figure 1.

The Canadian Weathership CCGS "Vancouver"

Photo by
Canadian Hydrographic Service
Victoria, B.C.

Figure 2.

The Canadian Weathership CCGS "Quadra"

Photo by
Canadian Hydrographic Service
Victoria, B.C.

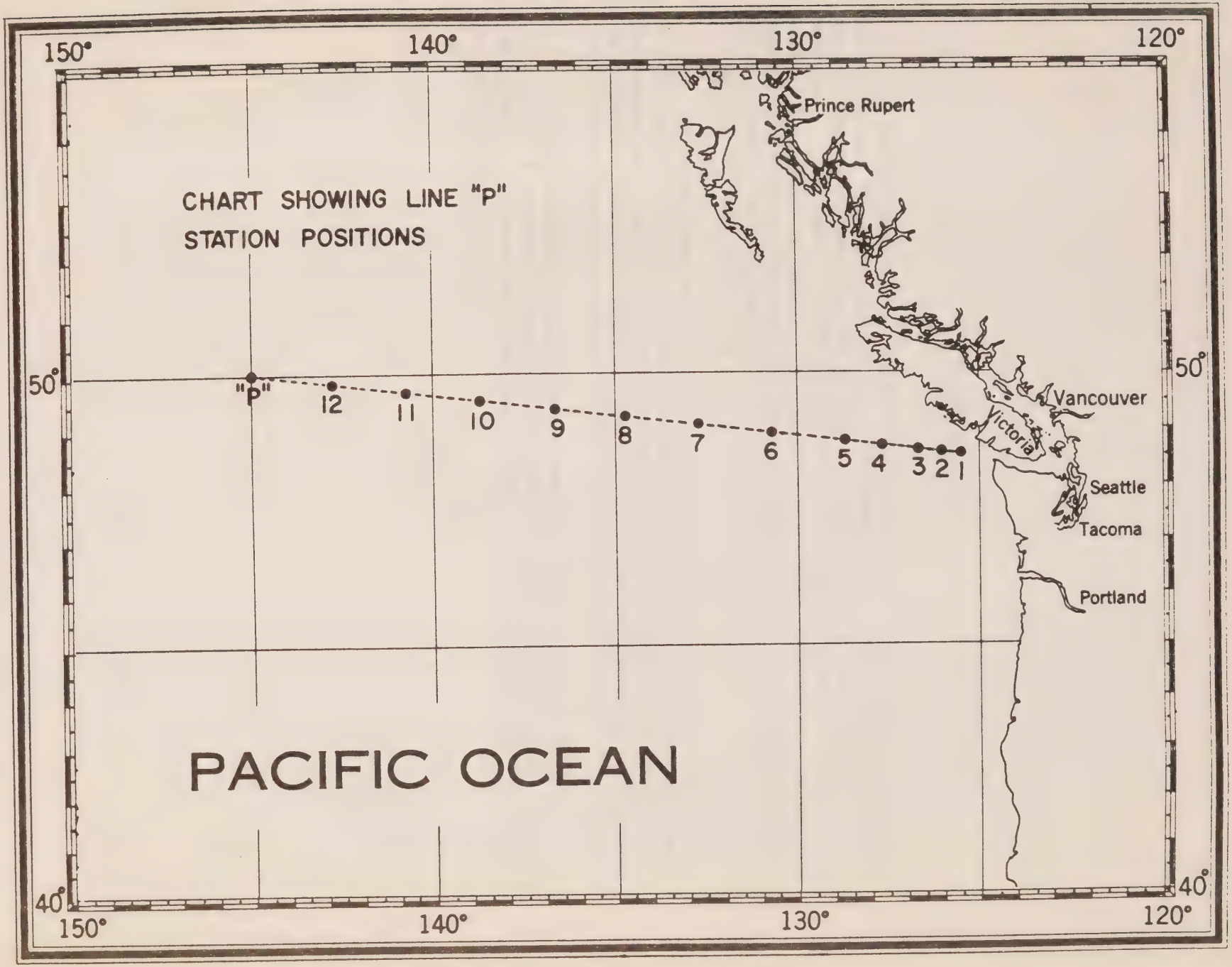

150°
140°
130°
120°
Prince Rupert
CHART SHOWING LINE "P"
STATION POSITIONS
50°
"P"
12
11
10
9
8
7
6
5
4
3
2
1
Vancouver
Victoria
Seattle
Tacoma
Portland
PACIFIC OCEAN
40°

Figure 3.

## INTRODUCTION

Canadian operation of Ocean Weather Station P (latitude 50°00'N, longitude 145°00'W) was inaugurated in December 1950. The Station is manned by two vessels operated by the Marine Services Branch of the Department of Transport. They are the CCGS "Vancouver" and the CCGS "Quadra" (Fig.1 and 2). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

The CCGS "Vancouver" is completely equipped with deck and laboratory facilities required to make bathythermograph and oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The CCGS "Quadra" is equipped with bathythermograph equipment only. The BT observations on both ships are made by members of the crew.

Bathythermograph observations have been made at Station P since July 1952. A program of oceanographic observations was commenced in August 1956, and it has been increased and altered to suit the requirements for new and additional information.

## CRUISE LOG, CCGS "VANCOUVER", SURVEY P-68-2

May 17 — departed from Esquimalt, B.C.; 12 oceanographic stations were observed en route to Station P.

May 20 — rendezvous with CCGS "Quadra"

May 21 — regular observations began, including one 4200 m cast and one STD cast per week and regular biological observations.

June 30 — relieved by CCGS "Quadra" and proceeded on the return journey; 6 oceanographic stations were observed on Line P (Fig, 3) and 318 BT observations were made by the ship's crew during the patrol.

July 4 — docked at Esquimalt base.

## OBSERVATIONAL PROCEDURES

During survey P-68-2, water samples and temperatures were obtained at depth with Nansen water sample bottles equipped with either Richter and Wiese or Yoshino reversing thermometers. Surface samples (0 m) were obtained in a one-gallon rubber bucket. The surface temperature was measured in this bucket with a thermometer graduated in 0.5 C intervals.

Station locations were determined by the officers of the watch, who also made the meteorological observations reported with the oceanographic data.

Experimental casts were made with a Bissett-Berman salinity-temperature-depth system.

## LABORATORY PROCEDURES

The salinity determinations of the oceanographic station samples from Survey P-68-2, and of the daily surface samples taken in conjunction with the BT observations from both ships, were made with an inductive salinometer, Model 601 MK III, Auto-Lab Industries. Most of the oceanographic station samples were analysed on board "Vancouver". The salinity data are the means of duplicate determinations, and are considered to have an accuracy at the 35‰ salinity level of ± 0.003‰ (Brown and Hamon, 1961).

The conversions from conductivity ratio to salinity were made from international oceanographic tables, published jointly by the National Institute of Oceanography, Great Britain, and UNESCO.

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1965). The data are the means of duplicate determinations.

## BATHYTHERMOGRAPH OBSERVATIONS

Bathythermograph observations to 275 m depth were made from "Vancouver" every 3 hours during the patrol, and also on the return journey to the base. The "Quadra" made 14 BT observations during the journey to Station P, took 320 observations to 275 m every 3 hours while on station and made 21 BT observations on the ingoing trip.

The bathythermograms have been prepared by the Canadian Oceanographic Data Centre in their BT-aperture card format (Sauer, 1964), and copies are available from the Centre. The bathythermograms presented in Section IV of this data record were reproduced from the BT-aperture cards. The consecutive number entered below each bathythermogram refers to an entry in Table 1 or Table 2, which list the information concerning time/date, position and associated meteorological information.

## PERSONNEL

The scientist-in-charge of the Station P program was Dr. C.A. Collins. The oceanographers on board "Vancouver" during survey P-68-2 were Mr. D.A. Healey and Mr. C. De Jong.

The master of the ship was Captain J.H. Linggard. The ships' crews made the BT observations.

# SECTION II

## Description of the machine-generated data record

# INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** ($\sigma$) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma$ = A, $2\sigma$ = B, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, $O_2$) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement ($\sigma$) under normal routine field conditions by:

# CANADIAN OCEANOGRAPHIC DATA CENTRE

## MASTER

| 1 IDENT. CODE | 2 LATITUDE (N=+) | 3 LONGITUDE (W=+) | 5 DATE | 6 TIME | 7 DEPTH | 9 NO. DEPTHS OBS'D. | VESSEL |
|---|---|---|---|---|---|---|---|
| COUNTRY INST. | — DEG.° MIN. 1/10 | — DEG.° MIN. 1/10 | YEAR MONTH DAY | HOURS G.M.T. 1/10 | — TO BOTTOM | | ENTERED BY / CHECKED BY |
| 1 8 | | | | | | | |
| 1 2 3 4 | 5 6 7 8 9 | 10 11 12 13 14 15 | 19 20 21 22 23 24 | 25 26 27 | 28 29 30 31 | 34 35 | |

| 10 WATER | 11 WAVES I | 12 WAVES II | 13 WIND | — 14 BAROMETER | — 15 AIR TEMP. 1/10 | — 16 WET BULB 1/10 | 17 W.W. CODE (SEPT. 62) | 18 CLOUD TYPE | 18 CLOUD AMT. | 19 VIS. | 20 HOURS AFTER H.W. | 21 UNASSIGNED | 22 CRUISE REFERENCE NUMBER | 23 CONSEC. NUMBER | 24 CARD TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLOUR TRANS. | Dw Dw Pw Hw | Dw Dw Pw Hw | DIR. FORCE SPEED | | | | | | | | | | | | 1 |
| 36 37 38 39 | 40 41 42 43 | 44 45 46 47 | 48 49 50 51 | 52 53 54 | 55 56 57 | 58 59 60 | 61 62 | 63 64 | | 65 | 66 67 | 68 69 70 71 72 73 | 74 75 76 | 77 78 79 | 80 |

## OBSERVED CARD

| | 6 TIME HOURS G.M.T. | 1/10 | 7 DEPTH OF SAMPLE | e | — 8 TEMPERATURE | e | 9 SALINITY | d/e | — 10 OXYGEN | e | 13 $PO_4$ - P | 14 TOTAL - P | 15 $NO_2$ - N | 16 $NO_3$ - N | 17 $SIO_3$ - SI | 18 P.H. | CARD TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | - | | | | | | | | | | | | | 3 |
| 2 | | | | | | | | | | | | | | | | | 3 |
| 3 | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | 3 |
| 5 | | | | | | | | | | | | | | | | | 3 |
| 6 | | | | | | | | | | | | | | | | | 3 |
| 7 | | | | | | | | | | | | | | | | | 3 |
| 8 | | | | | | | | | | | | | | | | | 3 |
| 9 | | | | | | | | | | | | | | | | | 3 |
| 10 | | | | | | | | | | | | | | | | | 3 |
| 11 | | | | | | | | | | | | | | | | | 3 |
| 12 | | | | | | | | | | | | | | | | | 3 |
| 13 | | | | | | | | | | | | | | | | | 3 |
| 14 | | | | | | | | | | | | | | | | | 3 |
| 15 | | | | | | | | | | | | | | | | | 3 |
| 16 | | | | | | | | | | | | | | | | | 3 |
| 17 | | | | | | | | | | | | | | | | | 3 |
| 18 | | | | | | | | | | | | | | | | | 3 |
| 19 | | | | | | | | | | | | | | | | | 3 |
| 20 | | | | | | | | | | | | | | | | | 3 |
| | 25 26 | 27 | 28 29 30 31 | 32 | 33 34 35 36 | 37 | 38 39 40 41 | 42 | 43 44 45 46 | | 55 56 57 | 58 59 60 | 61 62 | 63 64 65 66 | 67 68 69 | 0 71 72 | 80 |

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma}\right)^2 \right\}^{1/2}$$ , where

$\sigma$ = Standard deviation of the combined error estimates at standard oceanographic depth,

$\Delta V_i$ = the interpolation error estimate of variable "V" at standard oceanographic depth = $\frac{1}{3}(V_{i_1} - V_{i_2})$

$\gamma$ = Interpolation polynomial coefficient.

$Z_j$ = Observed depth.

$Z_i$ = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if $\geq 2$, is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate.** In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

## EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

| | | | | | |
|---|---|---|---|---|---|
| *(1) C-REF-NO* | *(6) YR* | *(11) DEPTH* | *(16) WAVES 1* | *(21) AIR T* | *(26) VIS* |
| *(2) CONS. NO* | *(7) MONTH* | *(12) MXSAMPD* | *(17) WAVES 2* | *(22) WET B* | *(27) STN* |
| *(3) LAT* | *(8) DAY* | *(13) NO. DPTH* | *(18) WND-DIR* | *(23) ww-CODE* | |
| *(4) LON* | *(9) HR* | *(14) W-COLOR* | *(19) WND-FCE* | *(24) CLD-TPE* | |
| *(5) MARSD SQ* | *(10) C/I* | *(15) W-TRNSP* | *(20) BARO* | *(25) CLD-AMT* | *(28) HW* |

(1) CRUISE REFERENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER: Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

(4) LONGITUDE: Indicate the position of the platform at the time of observation.

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/INSTITUTE: The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH: The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
00 m - 50 m = 00
51 m - 150 m = 01
151 m - 250 m = 02
etc.

(13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).

(14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).

(15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;

NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.

(16) WAVES 1 ($d_W d_W P_W H_W$-code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.

(17) WAVES 2 ($d_W d_W P_W H_W$-code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.

(18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).

(19) WIND FORCE (WND-FCE): Beaufort notation (See Table 6).

WIND SPEED (WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.

(20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.

(21) AIR TEMPERATURE: In degrees Celsius.

(22) WET BULB: In degrees Celsius.

(23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677

(24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.

(25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700

(26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.

(27) STATION: A station reference number, assigned by the institute prior to, or during the survey.

(28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

*(1) GMT* *(2) DEPTH* *(3) TEMP* *(4) SAL* *(5) OXYGEN* *(6) SGMT*
*(7) SOUND* *(8) $PO_4$* *(9) -P-* *(10) $NO_2$* *(11) $NO_3$* *(12) $SiO_3$* *(13) pH.*

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III.
An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805\ Cl‰$, reported in:
a. 1/100 parts per 1000, or
b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).
In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places.
An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: (Specific gravity $- 1$) X $10^3$ (e.g., $\sigma_t$ reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) $PO_4$ — Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.

(9) -P- — Total Phosphorus reported to hundredths of microgram-atoms per litre.

(10) $NO_2$ — Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre – No dissolved nitrogen included –

(11) $NO_3$ — Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.

(12) $SiO_3$ — Silicate-Silicon reported in whole microgram-atoms per litre.

(13) pH — The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

## INTERPOLATED DATA HEADINGS

*(1) DEPTH* *(2) TEMP* *(3) SAL* *(4) OXYGEN* *(5) SGMT* *(6) SOUND*
*(7) DELTA-D* *(8) POT-EN* *(9) SVA.*

(1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.

(2) TEMPERATURE: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "INTRODUCTION" to section II of the data record).

(3) SALINITY:

A. The reported salinity values are measured to three decimal places.
   (i) the interpolation error estimate is less than twice the standard deviation of measurement
      –the interpolated value is reported to three decimal places (e.g., 30.139).
   (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
      –the interpolated value is reported to two decimal places, and followed by the **interpolation error estimate** (e.g., 29.23 C).

B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
      –the interpolated value is reported to two decimal places, and followed by the **combined measurement and interpolation error estimate** (e.g., 30.59 B).

(4) OXYGEN: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "Introduction" to section II of the data record).

(5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.

(6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).

(7) DELTA-D: The geo-potential anomaly as defined by:

$$\Delta D = \int_o^P \delta dp$$

$\Delta D$ is expressed in dynamic metres ($10^5$ ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).

(8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly $\chi$ as defined by:

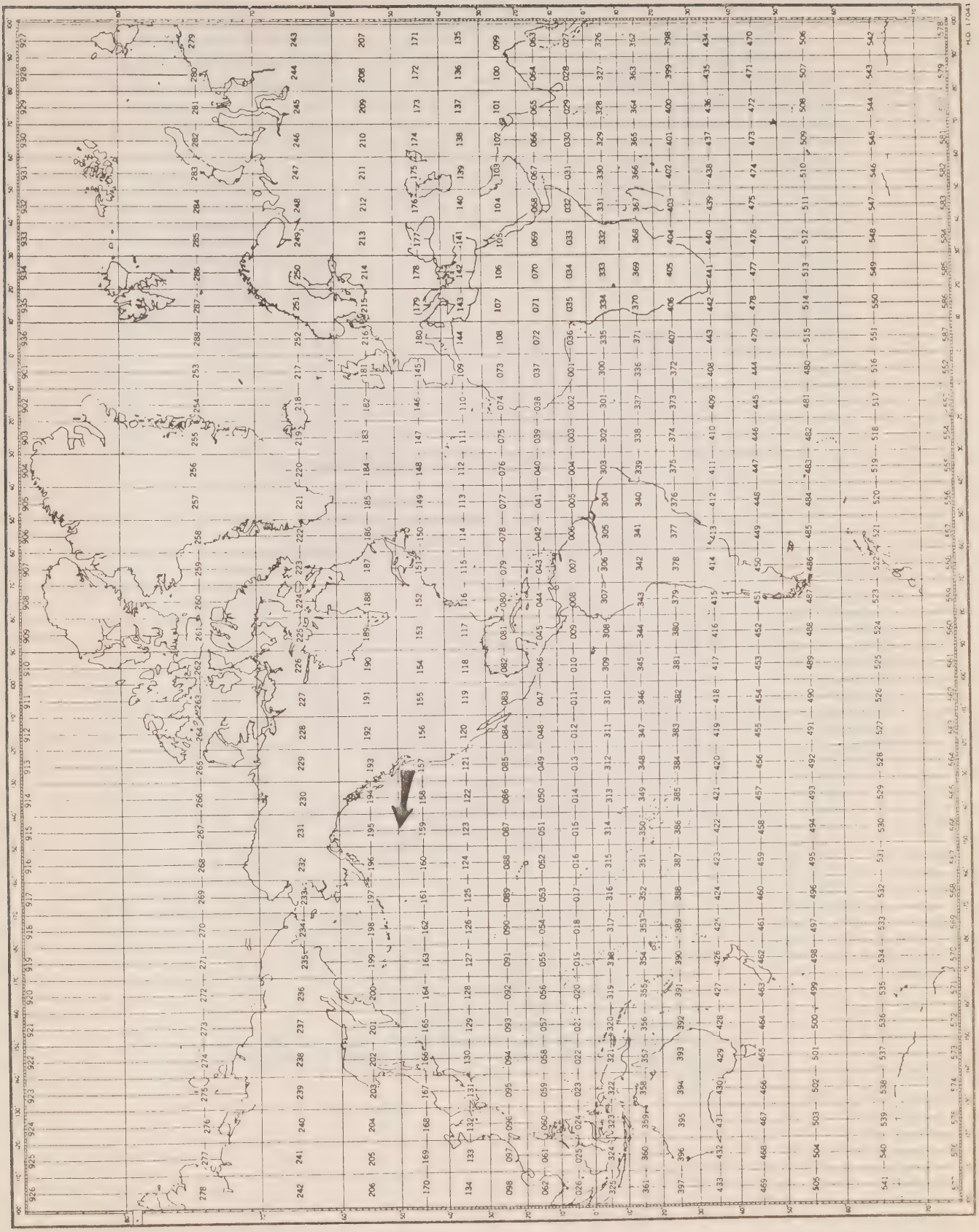
$$\chi = {}^1/g \int_o^P p\delta dp = \int_o^z \rho p \delta dz$$

$\chi$ is expressed in units of $10^8$ ergs/cm$^2$ and recorded to two decimal places (e.g., 116.44).

(9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:

$$\delta = \alpha - \alpha_{35.0.P}$$

$\delta$ is expressed in ml/gr, and conventionally reported as $10^5\,\delta$, to one decimal place (i.e., $\delta$ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).



MARSDEN SQUARE CHART

## Table 1

### CONVERSION MINUTES TO 1/10 HRS.

| Minutes | Tenths Hrs. |
|---|---|
| 00–03 | 0 |
| 04–08 | 1 |
| 09–15 | 2 |
| 16–20 | 3 |
| 21–27 | 4 |
| 28–32 | 5 |
| 33–39 | 6 |
| 40–44 | 7 |
| 45–51 | 8 |
| 52–56 | 9 |
| 57–59 | 0 (next HR.) |

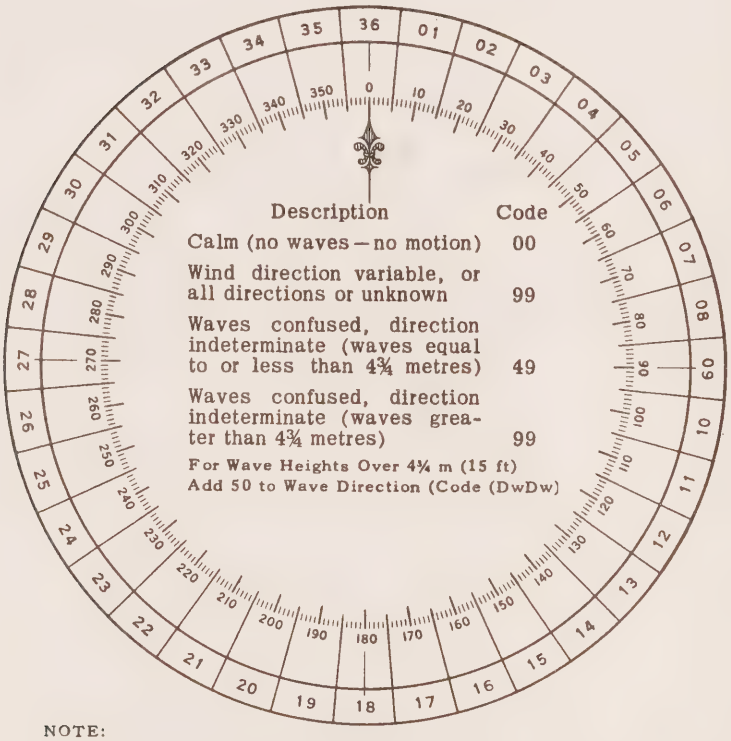
## Table 2

### WATER COLOR CODE

Based on Percentage Yellow

| Code: | Description |
|---|---|
| 00 | Deep Blue |
| 10 | Blue |
| 20 | Greenish Blue |
| 30 | Bluish Green |
| 40 | Green |
| 50 | Light Green |
| 60 | Yellowish Green |
| 70 | Yellow Green |
| 80 | Green Yellow |
| 90 | Greenish Yellow |
| 99 | Yellow |

## Table 3. DIRECTION CODE (dd)




NOTE:
Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

## Table 4. PERIOD OF THE WAVES (Pw)

(Measure to the Nearest Second)

| Code: | Period in Seconds: | Code: | Period in Seconds: |
|---|---|---|---|
| 2 | 5 sec. or less | 8 | 16 or 17 sec. |
| 3 | 6 or 7 sec. | 9 | 18 or 19 sec. |
| 4 | 8 or 9 sec. | 0 | 20 or 21 sec. |
| 5 | 10 or 11 sec. | 1 | Over 21 sec. |
| 6 | 12 or 13 sec. | X | Calm, or period |
| 7 | 14 or 15 sec. | | not determined |

## Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = ¼ m (1 ft) to ¾ m (2½ ft); 5 = 2¼ m (7 ft) to 2¾ m (9 ft); 9 = 4¼ m (13½ ft) to 4¾ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of 2¾ m is reported by code figure 5.

| Code | | | Code | |
|---|---|---|---|---|
| 0 | Less than ¼ m (1 ft) | | | |
| 1 | ½ m ( 1½ ft) | | | |
| 2 | 1 m ( 3 ft) | | | |
| 3 | 1½ m ( 5 ft) | Add | 3 | 6½ m (21 ft) |
| 4 | 2 m ( 6½ ft) | 50 | 4 | 7 m (22½ ft) |
| 5 | 2½ m ( 8 ft) | to | 5 | 7½ m (24 ft) |
| 6 | 3 m ( 9½ ft) | Dw Dw | 6 | 8 m (25½ ft) |
| 7 | 3½ m (11 ft) | | 7 | 8½ m (27 ft) |
| 8 | 4 m (13 ft) | | 8 | 9 m (29 ft) |
| 9 | 4½ m (14 ft) | | 9 | 9½ m (30½ ft) or more |
| x | Height not determined | | | |

## Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

| Code | Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully | Description |
|---|---|---|
| 00 | Sea like a mirror | Calm |
| 01 | Ripples with the appearance of scales are formed, but without foam crests. | Light Air |
| 02 | Small wavelets; crests have a glassy appearance and do not break. | Light Breeze |
| 03 | Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses. | Gentle Breeze |
| 04 | Small waves, becoming longer; fairly frequent white horses. | Moderate breeze |
| 05 | Moderate waves; many white horses are formed (chance of some spray) | Fresh Breeze |
| 06 | Large waves; white foam crests everywhere (probably some spray) | Strong Breeze |
| 07 | Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind. | Near Gale |
| 08 | Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind. | Gale |
| 09 | High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility. | Strong Gale |
| 10 | Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected. | Storm |
| 11 | Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected. | Violent Storm |
| 12 | Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected. | Hurricane |

# Table 7. PRESENT WEATHER

W.W. CODE

## NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww

**No meteors except photometeors**

| ww | | |
|---|---|---|
| 00 | Cloud development not observed or not observable | characteristic change of the state of sky during the past hour |
| 01 | Clouds generally dissolving or becoming less developed | |
| 02 | State of sky on the whole unchanged | |
| 03 | Clouds generally forming or developing | |

**Haze, dust, sand or smoke**

| ww | | |
|---|---|---|
| 04 | Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes | |
| 05 | Haze | |
| 06 | Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation | |
| 07 | Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen | |
| 08 | Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm | |
| 09 | Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour | |
| 10 | Mist | |
| 11 | Patches of | shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea |
| 12 | More of less continuous | |
| 13 | Lightning visible, no thunder heard | |
| 14 | Precipitation within sight, not reaching the ground or the surface of the sea | |
| 15 | Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station | |
| 16 | Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station | |
| 17 | Thunderstorm, but no precepitation at the time of observation | |
| 18 | Squalls | at or within sight of the station during the preceding hour or at the time of observation |
| 19 | Funnel clouds | |

| ww | | | |
|---|---|---|---|
| ww = 20 – 29 | Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation | | |
| 20 | Drizzle (not freezing) or snow grains | not falling as shower(s) | |
| 21 | Rain (not freezing) | | |
| 22 | Snow | | |
| 23 | Rain and snow or ice pellets, type (a) | | |
| 24 | Freezing drizzle or freezing rain | | |
| 25 | Shower(s) of rain | | |
| 26 | Shower(s) of snow, or of rain and snow | | |
| 27 | Shower(s) of hail, or of rain and hail | | |
| 28 | Fog or ice fog | | |
| 29 | Thunderstorm (with or without precipitation) | | |
| ww = 30 – 39 | Duststorm, sandstorm, drifting or blowing snow | | |
| 30 | Slight or moderate duststorm or sandstorm | – has decreased during the preceding hour | |
| 31 | | – no appreciable change during the preceding hour | |
| 32 | | – has begun or has increased during the preceding hour | |
| 33 | Severe duststorm or sandstorm | – has decreased during the preceding hour | |
| 34 | | – no appreciable change during the preceding hour | |
| 35 | | – has begun or has increased during the preceding hour | |
| 36 | Slight or moderate blowing snow | generally low (below eye level) | |
| 37 | Heavy drifting snow | | |
| 38 | Slight or moderate blowing snow | generally high (above eye level) | |
| 39 | Heavy blowing snow | | |
| ww = 40 – 49 | Fog or ice fog at the time of observation | | |
| 40 | Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer | | |
| 41 | Fog or ice fog in patches | | |
| 42 | Fog or ice fog, sky visible | has become thinner during the preceding hour | |
| 43 | Fog or ice fog, sky invisible | | |
| 44 | Fog or ice fog, sky visible | no appreciable change during the preceding hour | |
| 45 | Fog or ice fog, sky invisible | | |
| 46 | Fog or ice fog, sky visible | has begun or has become thicker during the preceding hour | |
| 47 | Fog or ice fog, sky invisible | | |
| 48 | Fog, depositing rime, sky visible | | |
| 49 | Fog, depositing rime, sky invisible | | |

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

## PRECIPITATION ON STATION AT TIME OF OBSERVATION

| ww = 50 – 59 | Drizzle | |
|---|---|---|
| 50 | Drizzle, not freezing, intermittent | slight at time of observation |
| 51 | Drizzle, not freezing, continuous | slight at time of observation |
| 52 | Drizzle, not freezing, intermittent | moderate at time of observation |
| 53 | Drizzle, not freezing, continuous | moderate at time of observation |
| 54 | Drizzle, not freezing, intermittent | heavy (dense) at time of observation |
| 55 | Drizzle, not freezing, continuous | heavy (dense) at time of observation |
| 56 | Drizzle, freezing, slight | |
| 57 | Drizzle, freezing, moderate or heavy (dense) | |
| 58 | Drizzle and rain, slight | |
| 59 | Drizzle and rain, moderate or heavy | |
| ww = 60 – 69 | Rain | |
| 60 | Rain, not freezing, intermittent | slight at time of observation |
| 61 | Rain, not freezing, continuous | slight at time of observation |
| 62 | Rain, not freezing, intermittent | moderate at time of observation |
| 63 | Rain, not freezing, continuous | moderate at time of observation |
| 64 | Rain, not freezing, intermittent | heavy at time of observation |
| 65 | Rain, not freezing, continuous | heavy at time of observation |
| 66 | Rain, freezing, slight | |
| 67 | Rain, freezing, moderate or heavy | |
| 68 | Rain or drizzle and snow, slight | |
| 69 | Rain or drizzle and snow, moderate or heavy | |
| 70 – 79 | Solid precipitation not in showers | |
| ww | | |
| 70 | Intermittent fall of snow flakes | slight at time of observation |
| 71 | Continuous fall of snow flakes | slight at time of observation |
| 72 | Intermittent fall of snow flakes | moderate at time of observation |
| 73 | Continuous fall of snow flakes | moderate at time of observation |
| 74 | Intermittent fall of snow flakes | heavy at time of observation |
| 75 | Continuous fall of snow flakes | heavy at time of observation |
| 76 | Ice prisms (with or without fog) | |
| 77 | Snow grains (with or without fog) | |
| 78 | Isolated starlike snow crystals (with or without fog) | |
| 79 | Ice pellets, type (a) | |

| ww = 80 – 99 | Showery precipitation, or precipitation with current or recent thunderstorm | |
|---|---|---|
| 80 | Rain shower(s), slight | |
| 81 | Rain shower(s), moderate or heavy | |
| 82 | Rain shower(s), violent | |
| 83 | Shower(s) of rain and snow mixed, slight | |
| 84 | Shower(s) of rain and snow mixed, moderate or heavy | |
| 85 | Snow shower(s), slight | |
| 86 | Snow shower(s), moderate or heavy | |
| 87 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed | – slight |
| 88 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed | – moderate or heavy |
| 89 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | – slight |
| 90 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | – moderate or heavy |
| 91 | Slight rain at time of observation | thunderstorm during the preceding hour but not at time of observation |
| 92 | Moderate or heavy rain at time of observation | thunderstorm during the preceding hour but not at time of observation |
| 93 | Slight snow, or rain and snow mixed or hail at time of observation | thunderstorm during the preceding hour but not at time of observation |
| 94 | Moderate or heavy snow, or rain and snow mixed or hail at time of observation | thunderstorm during the preceding hour but not at time of observation |
| 95 | Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation | thunderstorm at time of observation |
| 96 | Thunderstorm, slight or moderate, with hail at time of observation | thunderstorm at time of observation |
| 97 | Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation | thunderstorm at time of observation |
| 98 | Thunderstorm, combined with duststorm or sandstorm at time of observation | thunderstorm at time of observation |
| 99 | Thunderstorm, heavy, with hail at time of observation | thunderstorm at time of observation |

PRECIPITATION ON STATION AT TIME OF OBSERVATION

## Table 8. CLOUD TYPE CODE

| Code | Cloud Type | Code | Cloud Type |
|---|---|---|---|
| 0 | Cirrus ..... Ci | 5 | Nimbostratus ..... Ns |
| 1 | Cirrocumulus ..... Cc | 6 | Stratocumulus ..... Sc |
| 2 | Cirrostratus ..... Cs | 7 | Stratus ..... St |
| 3 | Altocumulus ..... Ac | 8 | Cumulus ..... Cu |
| 4 | Altostratus ..... As | 9 | Cumulonimbus ..... Cb |
| x | Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena | | |

## Table 9. CLOUD AMOUNT CODE

| Code | Cloud Cover | Code | Cloud Cover |
|---|---|---|---|
| 0 | 0 | 6 | 6 oktas |
| 1 | 1 okta or less, but not zero | 7 | 7 oktas or more, but not 8 oktas |
| 2 | 2 oktas | 8 | 8 oktas |
| 3 | 3 oktas | 9 | Sky obscured, or cloud amount cannot be estimated |
| 4 | 4 oktas | | |
| 5 | 5 oktas | | |

Note: 1 okta = $\frac{1}{8}$ of the sky covered

## Table 10. VISIBILITY

| Code | Estimate of hor. Visibility | |
|---|---|---|
| 0 | Less than 50 metres | (less than 55 yards) |
| 1 | 50—200 metres | (approx. 55—220 yards) |
| 2 | 200—500 metres | (approx. 220—550 yards) |
| 3 | 500—1,000 metres | (approx. 550 yards— $\frac{5}{8}$ n.m.) |
| 4 | 1—2 km | (approx. $\frac{5}{8}$—1 n.m.) |
| 5 | 2—4 km | (approx. 1—2 n.m.) |
| 6 | 4—10 km | (approx. 2—6 n.m.) |
| 7 | 10—20 km | (approx. 6—12 n.m.) |
| 8 | 20—50 km | (approx. 12—30 n.m.) |
| 9 | 50 km or more | (30 n.m. or more) |

Note: n.m. = nautical mile

## TABLE 11. INSTITUTE CODE

| Code | Institute |
|---|---|
| 01 | Marine Ecology Laboratory, Bedford Institute |
| 02 | Pacific Oceanographic Group |
| 03 | Biological Station, St. Andrews, N.B. |
| 04 | Arctic Biological Station, Ste. Anne de Bellevue, P.Q. |
| 05 | Biological Station, St. John's Nfld. |
| 06 | Station de Biologie Marine, Grande Riviere, P.Q. |
| 07 | Marine Sciences Branch, Central Region |
| 08 | Defence Research Establishment, Atlantic |
| 09 | Defence Research Establishment, Pacific |
| 10 | Atlantic Oceanographic Laboratory, Bedford Institute |
| 11 | Polar Continental Shelf Project |
| 12 | Great Lakes Institute |
| 13 | Institute of Oceanography, University of British Columbia |
| 14 | Institute of Oceanography, Dalhousie University |
| 15 | Marine Sciences Branch, Pacific Region |
| 16 | Department of Transport |
| 17 | Marine Sciences Centre, McGill University |
| 18 | Canadian Forces Maritime Command, East Coast |
| 19 | Canadian Forces Maritime Command, West Coast |
| 20 | Ontario Water Resources Commission |
| 21 | Dept. of National Health and Welfare |
| 22 | Inland Waters Branch, Dept. of Energy, Mines and Resources. |

# SECTION III

## Serial oceanographic data

## GENERAL INFORMATION

| | |
|---|---|
| Institute: | Pacific Oceanographic Group, Nanaimo, B.C. |
| Observation platform: | CCGS "Vancouver" |
| Vessel's cruising speed: | 18 knots |
| Total number of stations occupied: | 24 |
| Anemometer height above sea level: | 20 metres |
| Water transparency: | Secchi Disc |
| Barometer readings: | Aneroid Barometer (corrected) |
| Air temperature: | Sling Psychrometer |
| Wet bulb temperature: | Sling Psychrometer |
| Surface sea water temperature: | Bucket sample (deck thermometer) |
| Depth to bottom: | U.S. Coast & Geodetic Survey Chart 8500 |

The following Standard Deviations were used to express both measurement and interpolation error estimates:

| | |
|---|---|
| Temperature | 0.02 |
| Salinity | 0.003 |
| Oxygen | 0.03 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 128 | WAVES 1 9950 | AIR T 12.8 | VIS 6 |
| CONS. NO 001 | MONTH 5 | MXSAMPD 01 | WAVES 2 2481 | WET B 11.6 | STN 001 |
| LAT 48-330N | DAY 18 | NO.DPTH 7 | WND-DIR 280 | WW-CODE 42 | |
| LON 125-320W | HR 02.9 | W-COLOR | WND-SPD 05 | CLD-TPE 4 | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1018.5 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 029 | 0000 | 106 B | 31582 | | 2421 | 14882 |
| 029 | 0010 | 1010 | 31641 | | 2434 | 14866 |
| 029 | 0020 | 0914 | 31832 | | 2464 | 14835 |
| 029 | 0030 | 0826 | 32095 | | 2498 | 14806 |
| 029 | 0050 | 0749 | 32886 | | 2571 | 14790 |
| 029 | 0075 | 0677 | 33543 | | 2632 | 14775 |
| 029 | 0100 | 0657 B | 33678 | | 2646 | 14773 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1060 B | 31582 | | 2421 | 14882 | 0000 | 00000 | 3720 |
| 0010 | 1010 | 31641 | | 2434 | 14866 | 0037 | 00002 | 3598 |
| 0020 | 0914 | 31832 | | 2464 | 14835 | 0071 | 00007 | 3311 |
| 0030 | 0826 | 32095 | | 2498 | 14806 | 0103 | 00015 | 2990 |
| 0050 | 0749 | 32886 | | 2571 | 14790 | 0156 | 00036 | 2299 |
| 0075 | 0677 | 33543 | | 2632 | 14775 | 0207 | 00068 | 1718 |
| 0100 | 0657 B | 33678 | | 2646 | 14773 | 0249 | 00105 | 1595 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 109 | WAVES 1 9950 | AIR T 11.6 | VIS 6 |
| CONS. NO 002 | MONTH 5 | MXSAMPD 01 | WAVES 2 26XX | WET B 10.5 | STN 002 |
| LAT 48-380N | DAY 18 | NO.DPTH 6 | WND-DIR 280 | WW-CODE 42 | |
| LON 126-000W | HR 04.3 | W-COLOR | WND-SPD 05 | CLD-TPE 4 | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1017.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 043 | 0000 | 118 B | 31712 | | 2410 | 14926 |
| 043 | 0010 | 0930 | 31874 | | 2465 | 14840 |
| 043 | 0020 | 0794 | 32285 | | 2518 | 14795 |
| 043 | 0030 | 0744 | 32557 | | 2546 | 14781 |
| 043 | 0050 | 0716 | 32775 | | 2567 | 14776 |
| 043 | 0075 | 0714 | 33413 | | 2617 | 14787 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1180 B | 31712 | | 2410 | 14926 | 0000 | 00000 | 3826 |
| 0010 | 0930 | 31874 | | 2465 | 14840 | 0036 | 00002 | 3302 |
| 0020 | 0794 | 32285 | | 2518 | 14795 | 0067 | 00006 | 2803 |
| 0030 | 0744 | 32557 | | 2546 | 14781 | 0093 | 00013 | 2534 |
| 0050 | 0716 | 32775 | | 2567 | 14776 | 0142 | 00033 | 2338 |
| 0075 | 0714 | 33413 | | 2617 | 14787 | 0195 | 00066 | 1863 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 1300 | WAVES 1 XX | AIR T 12.2 | VIS 8 | |
| CONS. NO 003 | MONTH 5 | MXSAMPD 03 | WAVES 2 XX | WET B 11.1 | STN 003 | |
| LAT 48-420N | DAY 18 | NO.DPTH 13 | WND-DIR 280 | WW-CODE 02 | | |
| LON 126-400W | HR 07.1 | W-COLOR | WND-SPD 05 | CLD-TPE 4 | | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1018.0 | CLD-AMT 4 | HW | |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 071 | 0000 | | 30999 | | | |
| 071 | 0010 | 0975 | 32081 | | 2474 | 14859 |
| 071 | 0020 | 0891 | 32215 | | 2498 | 14831 |
| 071 | 0030 | 0835 | 32322 | | 2514 | 14813 |
| 071 | 0050 | 0813 | 32429 | | 2526 | 14809 |
| 071 | 0075 | 0762 | 32857 | | 2567 | 14799 |
| 071 | 0100 | 0741 | 33290 | | 2604 | 14801 |
| 071 | 0125 | 0727 | 33611 | | 2631 | 14803 |
| 071 | 0150 | 0718 | 33773 | | 2645 | 14806 |
| 071 | 0175 | 0700 | 33861 | | 2654 | 14804 |
| 077 | 0198 | 0664 | 33918 | | 2664 | 14795 |
| 077 | 0247 | 0633 | 33951 | | 2670 | 14791 |
| 077 | 0297 | 0572 | 33982 | | 2681 | 14775 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | | 30999 | | | | | | |
| 0010 | 0975 | 32081 | | 2474 | 14859 | 0037 | 00002 | 3217 |
| 0020 | 0891 | 32215 | | 2498 | 14831 | 0068 | 00006 | 2993 |
| 0030 | 0835 | 32322 | | 2514 | 14813 | 0097 | 00014 | 2834 |
| 0050 | 0813 | 32429 | | 2526 | 14809 | 0153 | 00037 | 2727 |
| 0075 | 0762 | 32857 | | 2567 | 14799 | 0217 | 00077 | 2341 |
| 0100 | 0741 | 33290 | | 2604 | 14800 | 0271 | 00125 | 1994 |
| 0125 | 0727 | 33611 | | 2631 | 14803 | 0318 | 00179 | 1741 |
| 0150 | 0718 | 33773 | | 2645 | 14806 | 0361 | 00239 | 1612 |
| 0175 | 0700 | 33861 | | 2654 | 14804 | 0400 | 00304 | 1526 |
| 0200 | 0662 | 33921 | | 2664 | 14794 | 0437 | 00376 | 1436 |
| 0225 | 0645 B | 3394 B | | 2668 | 14792 | 0473 | 00454 | 1399 |
| 0250 | 0616 E | 3397 D | | 2674 | 14785 | 0508 | 00538 | 1346 |
| 0300 | 0569 | 33981 | | 2681 | 14774 | 0574 | 00725 | 1286 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 2499 | WAVES 1 2851 | AIR T 10.1 | VIS 8 |
| CONS. NO 004 | MONTH 5 | MXSAMPD 24 | WAVES 2 XX | WET B 08.7 | STN 004 |
| LAT 48-460N | DAY 18 | NO.DPTH 22 | WND-DIR 280 | WW-CODE 02 | |
| LON 127-400W | HR 11.3 | W-COLOR | WND-SPD 06 | CLD-TPE 6 | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1018.6 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 113 | 0000 | 103 B | 32253 | | 2478 | 14880 |
| 113 | 0010 | 1044 | 32253 | | 2476 | 14886 |
| 113 | 0020 | 1025 | 32255 | | 2479 | 14881 |
| 113 | 0030 | 0928 | 32261 | | 2495 | 14847 |
| 113 | 0050 | 0774 | 32389 | | 2529 | 14793 |
| 113 | 0075 | 0752 | 32626 | | 2550 | 14792 |
| 113 | 0100 | 0715 | 33211 | | 2601 | 14789 |
| 113 | 0125 | 0756 | 33611 | | 2627 | 14815 |
| 113 | 0150 | 0733 | 33784 | | 2644 | 14812 |
| 113 | 0175 | 0700 | 33833 | | 2652 | 14804 |
| 113 | 0200 | 0681 | 33919 | | 2662 | 14802 |
| 113 | 0250 | 0608 | 33926 | | 2672 | 14781 |
| 113 | 0300 | 0558 | 33944 | | 2679 | 14769 |
| 113 | 0400 | 0497 | 34014 | | 2692 | 14762 |
| 119 | 0500 | 0467 | 34093 | | 2702 | 14767 |
| 119 | 0600 | 0430 | 34204 | | 2714 | 14769 |
| 119 | 0800 | 0379 | 34303 | | 2728 | 14782 |
| 119 | 1000 | 0335 B | 34390 | | 2739 | 14798 |
| 119 | 1200 | 0296 | 34445 | | 2747 | 14816 |
| 119 | 1500 | 0242 B | 34514 | | 2757 | 14844 |
| 119 | 2000 | 0191 | 34594 | | 2768 | 14908 |
| 119 | 2400 | 0177 | 34627 | | 2771 | 14970 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1030 B | 32253 | | 2478 | 14880 | 0000 | 00000 | 3175 |
| 0010 | 1044 | 32253 | | 2476 | 14886 | 0032 | 00002 | 3199 |
| 0020 | 1025 | 32255 | | 2479 | 14881 | 0064 | 00007 | 3169 |
| 0030 | 0928 | 32261 | | 2495 | 14847 | 0095 | 00014 | 3015 |
| 0050 | 0774 | 32389 | | 2529 | 14793 | 0153 | 00038 | 2703 |
| 0075 | 0752 | 32626 | | 2550 | 14792 | 0218 | 00079 | 2500 |
| 0100 | 0715 | 33211 | | 2601 | 14789 | 0275 | 00130 | 2019 |
| 0125 | 0756 | 33611 | | 2627 | 14815 | 0323 | 00184 | 1780 |
| 0150 | 0733 | 33784 | | 2644 | 14812 | 0366 | 00245 | 1624 |
| 0175 | 0700 | 33833 | | 2652 | 14804 | 0406 | 00311 | 1547 |
| 0200 | 0681 | 33919 | | 2662 | 14802 | 0443 | 00384 | 1461 |
| 0225 | 0646 B | 3394 C | | 2667 | 14792 | 0480 | 00463 | 1407 |
| 0250 | 0608 | 33926 | | 2672 | 14781 | 0515 | 00548 | 1369 |
| 0300 | 0558 | 33944 | | 2679 | 14769 | 0582 | 00737 | 1300 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0400 | 0497 | 34014 | | 2692 | 14762 | 0707 | 01185 | 1186 |
| 0500 | 0467 | 34093 | | 2702 | 14767 | 0823 | 01717 | 1103 |
| 0600 | 0430 | 34204 | | 2714 | 14769 | 0928 | 02311 | 0987 |
| 0700 | 0402 | 3427 B | | 2722 | 14775 | 1025 | 02953 | 0919 |
| 0800 | 0379 | 34303 | | 2728 | 14782 | 1115 | 03651 | 0873 |
| 1000 | 0335 B | 34390 | | 2739 | 14798 | 1282 | 05183 | 0774 |
| 1200 | 0296 | 34445 | | 2747 | 14816 | 1431 | 06869 | 0702 |
| 1500 | 0242 B | 34514 | | 2757 | 14844 | 1631 | 09616 | 0607 |
| 2000 | 0191 | 34594 | | 2768 | 14908 | 1914 | 14672 | 0510 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 2529 | WAVES 1 00XX | AIR T 09.9 | VIS 7 |
| CONS. NO 005 | MONTH 5 | MXSAMPD 04 | WAVES 2 2562 | WET B 08.8 | STN 005 |
| LAT 48-51ON | DAY 18 | NO.DPTH 14 | WND-DIR CALM | WW-CODE 02 | |
| LON 128-40OW | HR 15.4 | W-COLOR | WND-SPD 00 | CLD-TPE 6 | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1018.1 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 154 | 0000 | 103 B | 32033 | | 2461 | 14877 |
| 154 | 0010 | 0946 | 32058 | | 2477 | 14848 |
| 154 | 0020 | 0956 | 32398 | | 2502 | 14858 |
| 154 | 0030 | 0898 | 32420 | | 2513 | 14838 |
| 154 | 0050 | 0825 | 32426 | | 2524 | 14814 |
| 154 | 0075 | 0759 | 32472 | | 2537 | 14793 |
| 154 | 0099 | 0699 | 33041 | | 2590 | 14781 |
| 154 | 0124 | 0733 B | 33450 | | 2618 | 14803 |
| 154 | 0149 | 0709 | 33661 | | 2637 | 14801 |
| 154 | 0173 | 0694 | 33760 | | 2647 | 14800 |
| 154 | 0198 | 0661 | 33863 | | 2660 | 14793 |
| 154 | 0248 | 0612 B | 33889 | | 2668 | 14782 |
| 154 | 0298 | 0596 | 33957 | | 2676 | 14784 |
| 154 | 0398 | 0531 | 34024 | | 2689 | 14775 |

#WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1030 B | 32033 | | 2461 | 14877 | 0000 | 00000 | 3338 |
| 0010 | 0946 | 32058 | | 2477 | 14848 | 0033 | 00002 | 3190 |
| 0020 | 0956 | 32398 | | 2502 | 14858 | 0064 | 00006 | 2955 |
| 0030 | 0898 | 32420 | | 2513 | 14838 | 0093 | 00014 | 2852 |
| 0050 | 0825 | 32426 | | 2524 | 14814 | 0149 | 00037 | 2746 |
| 0075 | 0759 | 32472 | | 2537 | 14793 | 0217 | 00080 | 2624 |
| 0100 | 0700 | 33061 | | 2591 | 14781 | 0276 | 00132 | 2110 |
| 0125 | 0733 B | 33461 | | 2618 | 14804 | 0326 | 00190 | 1859 |
| 0150 | 0708 | 33666 | | 2638 | 14801 | 0371 | 00252 | 1678 |
| 0175 | 0692 | 33769 | | 2648 | 14800 | 0412 | 00321 | 1583 |
| 0200 | 0659 | 33866 | | 2660 | 14792 | 0450 | 00394 | 1471 |
| 0225 | 0631 | 3389 D | | 2666 | 14785 | 0487 | 00474 | 1422 |
| 0250 | 0611 B | 33892 | | 2668 | 14782 | 0522 | 00560 | 1398 |
| 0300 | 0584 D | 3394 D | | 2676 | 14779 | 0591 | 00754 | 1333 |
| 0400 | 0530 | 34026 | | 2689 | 14775 | 0720 | 01214 | 1217 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 2929 | WAVES 1 0951 | AIR T 10.4 | VIS 8 |
| CONS. NO 006 | MONTH 5 | MXSAMPD 15 | WAVES 2 X2 | WET B 09.4 | STN 006 |
| LAT 49-020N | DAY 18 | NO.DPTH 20 | WND-DIR 090 | WW-CODE 02 | |
| LON 130-400W | HR 21.2 | W-COLOR | WND-SPD 05 | CLD-TPE 6 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 1016.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 212 | 0000 | 098 B | 31920 | | 2461 | 14857 |
| 212 | 0010 | 0931 | 32019 | | 2476 | 14842 |
| 212 | 0020 | 0802 | 32325 | | 2519 | 14798 |
| 212 | 0030 | 0778 | 32412 | | 2530 | 14792 |
| 212 | 0050 | 0735 | 32435 | | 2538 | 14779 |
| 212 | 0075 | 0680 | 32735 | | 2569 | 14765 |
| 212 | 0100 | 0702 | 33239 | | 2605 | 14785 |
| 212 | 0125 | 0700 B | 33551 | | 2630 | 14792 |
| 212 | 0150 | 0681 | 33734 | | 2647 | 14791 |
| 212 | 0175 | 0654 | 33835 | | 2658 | 14786 |
| 212 | 0200 | 0629 | 33866 | | 2664 | 14780 |
| 212 | 0250 | 0598 | 33918 | | 2672 | 14777 |
| 212 | 0300 | 0549 | 33958 | | 2681 | 14766 |
| 212 | 0400 | 0483 | 34023 | | 2694 | 14756 |
| 218 | 0500 | 0459 | 34110 | | 2704 | 14764 |
| 218 | 0600 | 0427 | 34184 | | 2713 | 14768 |
| 218 | 0800 | 0376 | 34293 | | 2727 | 14781 |
| 218 | 1000 | 0326 B | 34387 | | 2739 | 14794 |
| 218 | 1200 | 0286 | 34441 | | 2747 | 14812 |
| 218 | 1500 | 0240 B | 34514 | | 2757 | 14843 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0980 B | 31920 | | 2461 | 14857 | 0000 | 00000 | 3343 |
| 0010 | 0931 | 32019 | | 2476 | 14842 | 0033 | 00002 | 3196 |
| 0020 | 0802 | 32325 | | 2519 | 14798 | 0063 | 00006 | 2784 |
| 0030 | 0778 | 32412 | | 2530 | 14792 | 0090 | 00013 | 2688 |
| 0050 | 0735 | 32435 | | 2538 | 14779 | 0144 | 00035 | 2616 |
| 0075 | 0680 | 32735 | | 2569 | 14765 | 0206 | 00074 | 2325 |
| 0100 | 0702 | 33239 | | 2605 | 14785 | 0260 | 00122 | 1981 |
| 0125 | 0700 B | 33551 | | 2630 | 14792 | 0307 | 00176 | 1749 |
| 0150 | 0681 | 33734 | | 2647 | 14791 | 0349 | 00235 | 1592 |
| 0175 | 0654 | 33835 | | 2658 | 14786 | 0388 | 00300 | 1485 |
| 0200 | 0629 | 33866 | | 2664 | 14780 | 0425 | 00370 | 1433 |
| 0225 | 0613 | 33894 | | 2668 | 14778 | 0460 | 00448 | 1396 |
| 0250 | 0598 | 33918 | | 2672 | 14777 | 0495 | 00533 | 1362 |
| 0300 | 0549 | 33958 | | 2681 | 14766 | 0562 | 00720 | 1278 |
| 0400 | 0483 | 34023 | | 2694 | 14756 | 0685 | 01160 | 1163 |
| 0500 | 0459 | 34110 | | 2704 | 14764 | 0798 | 01682 | 1081 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0600 | 0427 | 34184 | | 2713 | 14768 | 0903 | 02273 | 0999 |
| 0700 | 0400 | 34243 | | 2721 | 14774 | 1001 | 02924 | 0933 |
| 0800 | 0376 | 34293 | | 2727 | 14781 | 1092 | 03629 | 0877 |
| 1000 | 0326 B | 34387 | | 2739 | 14794 | 1259 | 05156 | 0766 |
| 1200 | 0286 | 34441 | | 2747 | 14812 | 1406 | 06823 | 0694 |
| 1500 | 0240 B | 34514 | | 2757 | 14843 | 1604 | 09549 | 0604 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3275 | WAVES 1 0152 | AIR T 09.4 | VIS 7 | |
| CONS. NO 007 | MONTH 5 | MXSAMPD 04 | WAVES 2 2562 | WET B 08.8 | STN 007 | |
| LAT 49-090N | DAY 19 | NO.DPTH 14 | WND-DIR 010 | WW-CODE 02 | | |
| LON 132-400W | HR 03.5 | W-COLOR | WND-SPD 07 | CLD-TPE 6 | | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 1011.3 | CLD-AMT 7 | HW | |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 035 | 0000 | 093 B | 32516 | | 2515 | 14846 |
| 035 | 0010 | 0908 | 32491 | | 2517 | 14839 |
| 035 | 0020 | 0842 | 32486 | | 2526 | 14816 |
| 035 | 0030 | 0829 | 32484 | | 2528 | 14813 |
| 035 | 0049 | 0787 | 32484 | | 2534 | 14799 |
| 035 | 0073 | 0712 | 32503 | | 2546 | 14774 |
| 035 | 0098 | 0667 | 32997 | | 2591 | 14767 |
| 035 | 0123 | 0674 B | 33449 | | 2625 | 14780 |
| 035 | 0147 | 0664 | 33653 | | 2643 | 14783 |
| 035 | 0171 | 0643 | 33773 | | 2655 | 14780 |
| 035 | 0196 | 0613 | 33821 | | 2663 | 14773 |
| 035 | 0246 | 0567 | 33863 | | 2672 | 14763 |
| 035 | 0295 | 0517 | 33908 | | 2681 | 14751 |
| 035 | 0395 | 0457 | 33996 | | 2695 | 14744 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0930 B | 32516 | | 2515 | 14846 | 0000 | 00000 | 2824 |
| 0010 | 0908 | 32491 | | 2517 | 14839 | 0028 | 00001 | 2811 |
| 0020 | 0842 | 32486 | | 2526 | 14816 | 0056 | 00006 | 2720 |
| 0030 | 0829 | 32484 | | 2528 | 14813 | 0083 | 00013 | 2705 |
| 0050 | 0784 | 32480 | | 2534 | 14798 | 0137 | 00035 | 2648 |
| 0075 | 0707 | 3253 B | | 2549 | 14773 | 0202 | 00076 | 2509 |
| 0100 | 0667 | 33038 | | 2594 | 14768 | 0260 | 00127 | 2085 |
| 0125 | 0674 B | 33472 | | 2627 | 14780 | 0309 | 00183 | 1774 |
| 0150 | 0662 | 33672 | | 2645 | 14783 | 0351 | 00243 | 1613 |
| 0175 | 0638 | 33784 | | 2657 | 14779 | 0390 | 00308 | 1503 |
| 0200 | 0609 | 33826 | | 2664 | 14772 | 0427 | 00379 | 1438 |
| 0225 | 0585 | 33850 | | 2668 | 14767 | 0463 | 00457 | 1395 |
| 0250 | 0563 | 33867 | | 2673 | 14762 | 0498 | 00541 | 1357 |
| 0300 | 0518 B | 33911 | | 2681 | 14752 | 0564 | 00728 | 1276 |
| 0400 | 0454 | 34001 | | 2696 | 14744 | 0687 | 01165 | 1147 |

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|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3549 | WAVES 1 1052 | AIR T 08.3 | VIS 5 |
| CONS. NO 008 | MONTH 5 | MXSAMPD 04 | WAVES 2 99X1 | WET B 08.3 | STN 008 |
| LAT 49-17ON | DAY 19 | NO.DPTH 14 | WND-DIR 100 | WW-CODE 47 | |
| LON 134-40OW | HR 09.6 | W-COLOR | WND-SPD 10 | CLD-TPE | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 1005.9 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 096 | 0000 | 087· B | 32543 | | 2526 | 14824 |
| 096 | 0010 | 0850 | 32532 | | 2529 | 14818 |
| 096 | 0020 | 0781 | 32525 | | 2538 | 14793 |
| 096 | 0030 | 0762 | 32522 | | 2541 | 14787 |
| 096 | 0050 | 0705 | 32518 | | 2548 | 14768 |
| 096 | 0075 | 0651 | 32530 | | 2556 | 14751 |
| 096 | 0099 | 0627 | 32575 | | 2563 | 14746 |
| 096 | 0125 | C556 | 32834 | | 2592 | 14725 |
| 096 | 0149 | 0531 | 33327 | | 2634 | 14725 |
| 096 | 0173 | 0528 | 33635 | | 2658 | 14732 |
| 096 | 0198 | 0497 | 33741 | | 2670 | 14725 |
| 096 | 0248 | 0432 | 33785 | | 2681 | 14706 |
| 096 | 0298 | 0399 | 33836 | | 2688 | 14701 |
| 096 | 0398 | 0373 | 33973 | | 2702 | 14709 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0870 B | 32543 | | 2526 | 14824 | 0000 | 00000 | 2715 |
| 0010 | 0850 | 32532 | | 2529 | 14818 | 0027 | 00001 | 2696 |
| 0020 | 0781 | 32525 | | 2538 | 14793 | 0054 | 00005 | 2606 |
| 0030 | 0762 | 32522 | | 2541 | 14787 | 0080 | 00012 | 2584 |
| 0050 | 0705 | 32518 | | 2548 | 14768 | 0131 | 00033 | 2515 |
| 0075 | 0651 | 32530 | | 2556 | 14751 | 0194 | 00073 | 2441 |
| 0100 | 0624 | 32580 | | 2564 | 14745 | 0254 | 00127 | 2374 |
| 0125 | 0556 | 32834 | | 2592 | 14725 | 0311 | 00192 | 2106 |
| 0150 | 0531 | 33344 | | 2635 | 14725 | 0359 | 00259 | 1699 |
| 0175 | 0526 | 33649 | | 2660 | 14732 | 0398 | 00325 | 1468 |
| 0200 | 0494 | 33745 | | 2671 | 14724 | 0434 | 00393 | 1363 |
| 0225 | 0460 | 3378 C | | 2677 | 14714 | 0468 | 00467 | 1303 |
| 0250 | 0430 | 33787 | | 2681 | 14706 | 0500 | 00546 | 1267 |
| 0300 | 0393 B | 33839 | | 2689 | 14699 | 0562 | 00720 | 1193 |
| 0400 | 0373 | 33976 | | 2702 | 14709 | 0677 | 01129 | 1078 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3774 | WAVES 1 0963 | AIR T 09.7 | VIS 6 |
| CONS. NO 009 | MONTH 5 | MXSAMPD 06 | WAVES 2 1063 | WET B 08.9 | STN 009 |
| LAT 49-260N | DAY 19 | NO.DPTH 16 | WND-DIR 090 | WW-CODE 50 | |
| LON 136-400W | HR 17.0 | W-COLOR | WND-SPD 11 | CLD-TPE 7 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 1002.1 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 170 | 0000 | 083 B | 32546 | | 2533 | 14809 |
| 170 | 0010 | 0805 | 32530 | | 2535 | 14801 |
| 170 | 0019 | 0807 | 32530 | | 2535 | 14803 |
| 170 | 0028 | 0738 | 32530 | | 2545 | 14778 |
| 170 | 0047 | 0638 | 32536 | | 2558 | 14741 |
| 170 | 0070 | 0609 | 32550 | | 2563 | 14733 |
| 170 | 0093 | 0585 | 32565 | | 2567 | 14728 |
| 170 | 0117 | 0536 B | 32824 | | 2593 | 14715 |
| 170 | 0140 | 0498 | 33490 | | 2650 | 14712 |
| 170 | 0163 | 0485 | 33701 | | 2669 | 14713 |
| 170 | 0187 | 0460 | 33756 | | 2676 | 14708 |
| 170 | 0234 | 0413 | 33794 | | 2684 | 14696 |
| 170 | 0282 | 0383 B | 33846 | | 2691 | 14692 |
| 170 | 0377 | 0366 | 33956 | | 2701 | 14702 |
| 170 | 0474 | 0368 | 34054 | | 2709 | 14720 |
| 170 | 0573 | 0360 | 34146 | | 2717 | 14735 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0830 B | 32546 | | 2533 | 14809 | 0000 | 00000 | 2656 |
| 0010 | 0805 | 32530 | | 2535 | 14801 | 0027 | 00001 | 2634 |
| 0020 | 0801 | 32530 | | 2536 | 14801 | 0053 | 00005 | 2630 |
| 0030 | 0724 | 32530 | | 2547 | 14773 | 0079 | 00012 | 2528 |
| 0050 | 0631 | 32538 | | 2559 | 14739 | 0129 | 00032 | 2408 |
| 0075 | 0605 | 3254 B | | 2563 | 14732 | 0189 | 00071 | 2375 |
| 0100 | 0571 | 3261 B | | 2572 | 14724 | 0248 | 00123 | 2293 |
| 0125 | 0521 | 3306 I | | 2614 | 14713 | 0300 | 00184 | 1899 |
| 0150 | 0491 | 3362 D | | 2661 | 14713 | 0343 | 00242 | 1449 |
| 0175 | 0473 | 3374 B | | 2673 | 14711 | 0378 | 00301 | 1340 |
| 0200 | 0446 | 33770 | | 2678 | 14704 | 0411 | 00365 | 1291 |
| 0225 | 0421 | 33790 | | 2682 | 14698 | 0443 | 00434 | 1253 |
| 0250 | 0401 | 33810 | | 2686 | 14694 | 0474 | 00510 | 1219 |
| 0300 | 0377 B | 33867 | | 2693 | 14693 | 0534 | 00679 | 1156 |
| 0400 | 0366 | 33980 | | 2703 | 14706 | 0646 | 01080 | 1068 |
| 0500 | 0362 B | 34080 | | 2712 | 14722 | 0750 | 01560 | 0996 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3889 | WAVES 1 0552 | AIR T 07.8 | VIS 5 |
| CONS. NO 010 | MONTH 5 | MXSAMPD 04 | WAVES 2 99X3 | WET B 07.8 | STN 010 |
| LAT 49-340N | DAY 19 | NO.DPTH 14 | WND-DIR 050 | WW-CODE 46 | |
| LON 138-400W | HR 23.6 | W-COLOR | WND-SPD 09 | CLD-TPE 6 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 997.5 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 236 | 0000 | 083 B | 32556 | | 2533 | 14809 |
| 236 | 0010 | 0825 | 32539 | | 2533 | 14808 |
| 236 | 0020 | 0824 B | 32539 | | 2533 | 14810 |
| 236 | 0030 | 0696 | 32538 | | 2551 | 14762 |
| 236 | 0049 | 0656 | 32559 | | 2558 | 14749 |
| 236 | 0074 | 0634 | 32586 | | 2563 | 14745 |
| 236 | 0098 | 0614 | 32567 | | 2564 | 14740 |
| 236 | 0123 | 0557 | 32802 | | 2589 | 14724 |
| 236 | 0148 | 0485 | 33267 | | 2634 | 14705 |
| 236 | 0172 | 0493 | 33609 | | 2660 | 14717 |
| 236 | 0197 | 0458 | 33759 | | 2676 | 14709 |
| 236 | 0246 | 0424 | 33816 | | 2684 | 14703 |
| 236 | 0296 | 0393 | 33874 | | 2692 | 14699 |
| 236 | 0395 | 0369 | 33970 | | 2702 | 14707 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0830 B | 32556 | | 2533 | 14809 | 0000 | 00000 | 2648 |
| 0010 | 0825 | 32539 | | 2533 | 14808 | 0027 | 00001 | 2655 |
| 0020 | 0824 B | 32539 | | 2533 | 14810 | 0053 | 00005 | 2655 |
| 0030 | 0696 | 32538 | | 2551 | 14762 | 0079 | 00012 | 2486 |
| 0050 | 0655 | 32561 | | 2558 | 14749 | 0129 | 00032 | 2420 |
| 0075 | 0633 | 32583 | | 2563 | 14745 | 0189 | 00071 | 2380 |
| 0100 | 0610 | 32577 | | 2565 | 14739 | 0249 | 00124 | 2360 |
| 0125 | 0550 | 3284 B | | 2593 | 14722 | 0305 | 00189 | 2097 |
| 0150 | 0485 | 33301 | | 2637 | 14706 | 0352 | 00255 | 1680 |
| 0175 | 0490 | 33635 | | 2663 | 14716 | 0392 | 00320 | 1438 |
| 0200 | 0455 | 33767 | | 2677 | 14708 | 0426 | 00386 | 1304 |
| 0225 | 0436 | 3381 D | | 2683 | 14704 | 0458 | 00457 | 1252 |
| 0250 | 0421 | 33821 | | 2685 | 14703 | 0490 | 00533 | 1232 |
| 0300 | 0393 | 33877 | | 2692 | 14700 | 0550 | 00703 | 1165 |
| 0400 | 0369 | 33975 | | 2702 | 14707 | 0663 | 01107 | 1075 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3880 | WAVES 1 0452 | AIR T 08.8 | VIS 5 |
| CONS. NO 011 | MONTH 5 | MXSAMPD 10 | WAVES 2 99X5 | WET B 07.7 | STN 011 |
| LAT 49-41ON | DAY 20 | NO.DPTH 18 | WND-DIR 030 | WW-CODE 44 | |
| LON 140-40OW | HR 06.6 | W-COLOR | WND-SPD 07 | CLD-TPE 6 | |
| MARSD SQ 159 | C/I 18C2 | W-TRNSP | BARO 995.6 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 066 | 0000 | | 32549 | | | |
| 066 | 0010 | 0808 | 32535 | | 2535 | 14802 |
| 066 | 0020 | 0809 B | 32532 | | 2535 | 14804 |
| 066 | 0029 | 0779 | 32537 | | 2539 | 14794 |
| 066 | 0048 | 0610 | 32546 | | 2563 | 14730 |
| 066 | 0072 | 0585 | 32553 | | 2566 | 14724 |
| 066 | 0096 | 0560 | 32561 | | 2570 | 14718 |
| 066 | 0120 | 0515 | 32815 | | 2595 | 14707 |
| 066 | 0144 | 0474 | 33460 | | 2651 | 14702 |
| 066 | 0168 | 0469 | 33669 | | 2668 | 14707 |
| 066 | 0192 | 0432 | 33750 | | 2678 | 14697 |
| 066 | 0241 | 0397 | 33824 | | 2688 | 14691 |
| 066 | 0290 | 0388 | 33882 | | 2693 | 14696 |
| 066 | 0390 | 0381 | 33999 | | 2703 | 14711 |
| 077 | 0498 | 0374 | 34124 | | 2714 | 14728 |
| 077 | 0598 | 0359 | 34196 | | 2721 | 14739 |
| 077 | 0798 | 0332 | 34306 | | 2732 | 14762 |
| 077 | 0998 | 0295 B | 34386 | | 2742 | 14781 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | | 32549 | | | | | | |
| 0010 | 0808 | 32535 | | 2535 | 14802 | 0026 | 00001 | 2635 |
| 0020 | 0809 B | 32532 | | 2535 | 14804 | 0053 | 00005 | 2640 |
| 0030 | 0770 B | 32538 | | 2541 | 14791 | 0079 | 00012 | 2584 |
| 0050 | 0604 B | 32547 | | 2563 | 14728 | 0129 | 00032 | 2369 |
| 0075 | 0582 | 3255 B | | 2566 | 14723 | 0188 | 00070 | 2346 |
| 0100 | 0553 | 32581 | | 2572 | 14716 | 0247 | 00123 | 2290 |
| 0125 | 0505 | 3295 H | | 2607 | 14705 | 0300 | 00184 | 1961 |
| 0150 | 0473 | 3354 C | | 2657 | 14704 | 0344 | 00244 | 1488 |
| 0175 | 0459 | 33701 | | 2671 | 14705 | 0379 | 00304 | 1355 |
| 0200 | 0424 | 33767 | | 2680 | 14695 | 0413 | 00367 | 1270 |
| 0225 | 0404 | 3381 B | | 2686 | 14691 | 0444 | 00436 | 1222 |
| 0250 | 0394 | 33835 | | 2689 | 14692 | 0474 | 00510 | 1193 |
| 0300 | 0387 | 33894 | | 2694 | 14697 | 0533 | 00676 | 1146 |
| 0400 | 0381 | 34012 | | 2704 | 14713 | 0645 | 01074 | 1059 |
| 0500 | 0374 | 34126 | | 2714 | 14728 | 0747 | 01547 | 0975 |
| 0600 | 0359 | 34197 | | 2721 | 14739 | 0843 | 02084 | 0913 |
| 0700 | 0346 | 34257 | | 2727 | 14751 | 0932 | 02683 | 0862 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0800 | 0330 | 34309 | | 2733 | 14762 | 1017 | 03335 | 0813 |
| 1000 | 0295 B | 34387 | | 2742 | 14781 | 1173 | 04774 | 0731 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3909 | WAVES 1 9952 | AIR T 09.7 | VIS 5 |
| CONS. NO 012 | MONTH 5 | MXSAMPD 04 | WAVES 2 0153 | WET B 08.8 | STN 012 |
| LAT 49-490N | DAY 20 | NO.DPTH 14 | WND-DIR 340 | WW-CODE 45 | |
| LON 142-400W | HR 15.2 | W-COLOR | WND-SPD 05 | CLD-TPE | |
| MARSD SQ 159 | C/I 1802 | W-TRNSP | BARO 995.0 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 152 | 0000 | 077 B | 32540 | | 2541 | 14786 |
| 152 | 0010 | 0770 | 32535 | | 2541 | 14787 |
| 152 | 0020 | 0769 | 32536 | | 2541 | 14788 |
| 152 | 0030 | 0751 | 32539 | | 2544 | 14783 |
| 152 | 0050 | 0605 | 32554 | | 2564 | 14729 |
| 152 | 0074 | 0570 | 32553 | | 2568 | 14718 |
| 152 | 0099 | 0532 | 32592 | | 2576 | 14707 |
| 152 | 0124 | 0467 | 33060 | | 2620 | 14691 |
| 152 | 0148 | 0434 | 33467 | | 2656 | 14687 |
| 152 | 0173 | 0426 | 33685 | | 2674 | 14690 |
| 152 | 0198 | 0408 | 33744 | | 2680 | 14688 |
| 152 | 0247 | 0388 | 33809 | | 2687 | 14688 |
| 152 | 0297 | 0370 | 33878 | | 2695 | 14690 |
| 152 | 0397 | 0355 | 34010 | | 2707 | 14702 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0770 B | 32540 | | 2541 | 14786 | 0000 | 00000 | 2577 |
| 0010 | 0770 | 32535 | | 2541 | 14787 | 0026 | 00001 | 2583 |
| 0020 | 0769 | 32536 | | 2541 | 14788 | 0052 | 00005 | 2582 |
| 0030 | 0751 | 32539 | | 2544 | 14783 | 0078 | 00012 | 2557 |
| 0050 | 0605 | 32554 | | 2564 | 14729 | 0127 | 00032 | 2365 |
| 0075 | 0569 | 32550 | | 2568 | 14718 | 0186 | 00070 | 2328 |
| 0100 | 0529 | 32607 | | 2577 | 14707 | 0244 | 00121 | 2244 |
| 0125 | 0465 | 33079 | | 2621 | 14691 | 0295 | 00180 | 1823 |
| 0150 | 0433 | 33491 | | 2658 | 14687 | 0337 | 00238 | 1482 |
| 0175 | 0425 | 33693 | | 2674 | 14690 | 0372 | 00297 | 1325 |
| 0200 | 0407 | 33747 | | 2681 | 14687 | 0405 | 00359 | 1268 |
| 0225 | 0396 | 33784 | | 2685 | 14687 | 0436 | 00428 | 1231 |
| 0250 | 0387 | 33813 | | 2688 | 14688 | 0467 | 00503 | 1202 |
| 0300 | 0370 | 33881 | | 2695 | 14690 | 0526 | 00669 | 1139 |
| 0400 | 0355 | 34014 | | 2707 | 14702 | 0635 | 01060 | 1031 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 2383 | AIR T 13.3 | VIS 7 |
| CONS. NO 013 | MONTH 5 | MXSAMPD 42 | WAVES 2 2703 | WET B 10.5 | STN 201 |
| LAT 49-590N | DAY 21 | NO.DPTH 26 | WND-DIR 250 | WW-CODE 51 | |
| LON 145-010W | HR 19.2 | W-COLOR 10 | WND-SPD 04 | CLD-TPE 6 | |
| MARSD SQ 159 | C/I 1802 | W-TRNSP 14 | BARO | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 192 | 0000 | 073 B | 32517 | 711 | 2545 | 14770 |
| 192 | 0010 | 0723 | 32522 | 713 | 2546 | 14769 |
| 192 | 0020 | 0715 | 32548 | 719 | 2549 | 14768 |
| 192 | 0029 | 0710 | 32554 | 716 | 2550 | 14767 |
| 192 | 0049 | 0537 | 32583 | 730 | 2574 | 14701 |
| 192 | 0073 | 0523 | 32584 | 727 | 2576 | 14699 |
| 192 | 0097 | 0489 | 32607 | 723 | 2582 | 14690 |
| 192 | 0121 | 0464 | 33137 | 540 | 2626 | 14690 |
| 192 | 0146 | 0466 | 33546 | 397 | 2658 | 14701 |
| 192 | 0170 | 0442 | 33705 | 320 | 2674 | 14697 |
| 192 | 0194 | 0400 | 33749 | 273 | 2681 | 14684 |
| 192 | 0243 | 0390 | 33805 | 197 | 2687 | 14688 |
| 192 | 0292 | 0379 | 33880 | 156 | 2694 | 14693 |
| 192 | 0392 | 0356 | 33982 | 105 | 2704 | 14701 |
| 192 | 0491 | 0367 | 34116 | 072 | 2714 | 14724 |
| 192 | 0591 | 0340 | 34183 | 065 | 2722 | 14730 |
| 229 | 0800 | 0312 | 34329 | 047 | 2736 | 14754 |
| 229 | 1000 | 0281 B | 34389 | 059 | 2744 | 14775 |
| 229 | 1200 | 0256 B | 34447 | 067 | 2750 | 14799 |
| 229 | 1500 | 0226 B | 34536 | 080 | 2760 | 14837 |
| 229 | 2000 | 0191 | 34595 | 139 | 2768 | 14908 |
| 229 | 2500 | 0171 | 34633 | 208 | 2772 | 14985 |
| 229 | 3000 | 0157 | 34658 | 260 | 2775 | 15066 |
| 229 | 3500 | 0153 | 34670 | 299 | 2776 | 15151 |
| 229 | 4000 | 0151 | 34675 | 355 | 2777 | 15239 |
| 229 | 4200 | 0152 B | | | | |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0730 B | 32517 | 711 | 2545 | 14770 | 0000 | 00000 | 2541 |
| 0010 | 0723 | 32522 | 713 | 2546 | 14769 | 0026 | 00001 | 2530 |
| 0020 | 0715 | 32548 | 719 | 2549 | 14767 | 0051 | 00005 | 2502 |
| 0030 | 0702 B | 32555 | 717 | 2551 | 14764 | 0076 | 00012 | 2481 |
| 0050 | 0535 | 32583 | 730 | 2575 | 14700 | 0124 | 00031 | 2263 |
| 0075 | 0520 | 3258 B | 730 | 2576 | 14698 | 0180 | 00067 | 2255 |
| 0100 | 0485 | 3266 D | 704 B | 2586 | 14689 | 0236 | 00117 | 2154 |
| 0125 | 0464 | 33216 | 513 | 2632 | 14692 | 0285 | 00173 | 1719 |
| 0150 | 0464 | 33584 | 381 | 2662 | 14701 | 0325 | 00228 | 1444 |
| 0175 | 0433 | 33719 | 309 | 2676 | 14694 | 0359 | 00286 | 1313 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0200 | 0396 | 33757 | 262 | 2682 | 14683 | 0392 | 00348 | 1250 |
| 0225 | 0388 B | 33786 | 221 | 2686 | 14684 | 0423 | 00416 | 1222 |
| 0250 | 0388 | 33816 | 190 | 2688 | 14689 | 0453 | 00491 | 1202 |
| 0300 | 0377 | 33889 | 151 | 2695 | 14693 | 0512 | 00657 | 1139 |
| 0400 | 0357 | 33993 | 102 | 2705 | 14703 | 0623 | 01051 | 1048 |
| 0500 | 0365 | 34123 | 071 | 2715 | 14724 | 0724 | 01520 | 0967 |
| 0600 | 0338 | 34190 | 064 | 2723 | 14731 | 0819 | 02051 | 0897 |
| 0700 | 0323 | 3426 B | 054 | 2730 | 14742 | 0906 | 02634 | 0833 |
| 0800 | 0312 | 34329 | 047 | 2736 | 14754 | 0988 | 03261 | 0780 |
| 1000 | 0281 B | 34389 | 059 | 2744 | 14775 | 1139 | 04655 | 0715 |
| 1200 | 0256 B | 34447 | 067 | 2750 | 14799 | 1278 | 06222 | 0656 |
| 1500 | 0226 B | 34536 | 080 | 2760 | 14837 | 1465 | 08801 | 0572 |
| 2000 | 0191 | 34595 | 139 | 2768 | 14908 | 1739 | 13719 | 0509 |
| 2500 | 0171 | 34633 | 208 | 2772 | 14985 | 1990 | 19518 | 0475 |
| 3000 | 0157 | 34658 | 260 | 2775 | 15066 | 2227 | 26239 | 0454 |
| 3500 | 0153 | 34670 | 299 | 2776 | 15152 | 2459 | 34045 | 0454 |
| 4000 | 0151 | 34675 | 355 | 2777 | 15239 | 2693 | 43157 | 0461 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 1651 | AIR T 08.7 | VIS 7 |
| CONS. NO 014 | MONTH 5 | MXSAMPD 42 | WAVES 2 0682 | WET B 06.9 | STN 202 |
| LAT 50-020N | DAY 28 | NO.DPTH 26 | WND-DIR 160 | WW-CODE 02 | |
| LON 145-040W | HR 19.2 | W-COLOR 40 | WND-SPD 03 | CLD-TPE 8 | |
| MARSD SQ 195 | C/I 1802 | W-TRNSP 16 | BARO 1018.0 | CLD-AMT 5 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 192 | 0000 | 086 B | 32550 | 697 | 2529 | 14820 |
| 192 | 0010 | 0840 | 32536 | 707 | 2530 | 14814 |
| 192 | 0020 | 0783 | 32535 | 720 | 2539 | 14794 |
| 192 | 0030 | 0628 | 32568 | 731 | 2562 | 14735 |
| 192 | 0050 | 0559 B | 32577 | 733 | 2571 | 14710 |
| 192 | 0075 | 0535 | 32581 | 722 | 2574 | 14705 |
| 192 | 0100 | 0496 | 32818 | 634 | 2597 | 14696 |
| 192 | 0125 | 0483 | 33414 | 447 | 2646 | 14702 |
| 192 | 0150 | 0483 | 33638 | 365 | 2664 | 14710 |
| 192 | 0175 | 0469 | 33734 | 308 | 2673 | 14709 |
| 192 | 0200 | 0434 | 33770 | 280 | 2680 | 14699 |
| 192 | 0250 | 0400 B | 33826 | 196 | 2688 | 14694 |
| 192 | 0300 | 0379 | 33892 | 145 | 2695 | 14694 |
| 192 | 0400 | 0371 | 34054 | 098 | 2709 | 14709 |
| 192 | 0500 | 0368 | 34147 | 069 | 2716 | 14726 |
| 192 | 0600 | 0350 | 34213 | 064 B | 2723 | 14736 |
| 206 | 0795 | 0315 | 34319 | 053 B | 2735 | 14755 |
| 206 | 0993 | 0284 B | 34386 | 061 | 2743 | 14775 |
| 206 | 1192 | 0260 | 34437 | 065 | 2749 | 14799 |
| 206 | 1490 | 0231 | 34505 | 068 | 2757 | 14837 |
| 206 | 1987 | 0194 B | 34591 | 137 | 2767 | 14907 |
| 206 | 2484 | 0172 | 34630 | 200 | 2772 | 14983 |
| 206 | 2982 | 0158 | 34656 | 259 | 2775 | 15063 |
| 206 | 3479 | 0153 | 34673 | 299 | 2777 | 15148 |
| 206 | 3977 | 0151 | 34672 | 326 | 2777 | 15234 |
| 206 | 4176 | 0151 | 34681 | 328 | 2778 | 15270 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0860 B | 32550 | 697 | 2529 | 14820 | 0000 | 00000 | 2695 |
| 0010 | 0840 | 32536 | 707 | 2530 | 14814 | 0027 | 00001 | 2679 |
| 0020 | 0783 | 32535 | 720 | 2539 | 14794 | 0054 | 00005 | 2602 |
| 0030 | 0628 | 32568 | 731 | 2562 | 14735 | 0079 | 00012 | 2379 |
| 0050 | 0559 B | 32577 | 733 | 2571 | 14710 | 0126 | 00031 | 2294 |
| 0075 | 0535 | 32581 | 722 | 2574 | 14705 | 0183 | 00068 | 2267 |
| 0100 | 0496 | 32818 | 634 | 2597 | 14696 | 0237 | 00116 | 2049 |
| 0125 | 0483 | 33414 | 447 | 2646 | 14702 | 0283 | 00168 | 1591 |
| 0150 | 0483 | 33638 | 365 | 2664 | 14710 | 0321 | 00222 | 1425 |
| 0175 | 0469 | 33734 | 308 | 2673 | 14709 | 0356 | 00280 | 1341 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0200 | 0434 | 33770 | 280 | 2680 | 14699 | 0389 | 00343 | 1279 |
| 0225 | 0413 | 33799 | 238 | 2684 | 14695 | 0421 | 00412 | 1238 |
| 0250 | 0400 B | 33826 | 196 | 2688 | 14694 | 0452 | 00487 | 1206 |
| 0300 | 0379 | 33892 | 145 | 2695 | 14694 | 0511 | 00654 | 1139 |
| 0400 | 0371 | 34054 | 098 | 2709 | 14709 | 0620 | 01042 | 1018 |
| 0500 | 0368 | 34147 | 069 | 2716 | 14726 | 0719 | 01500 | 0953 |
| 0600 | 0350 | 34213 | 064 B | 2723 | 14736 | 0812 | 02026 | 0892 |
| 0700 | 0332 | 34272 | 057 B | 2730 | 14745 | 0900 | 02608 | 0837 |
| 0800 | 0314 | 34321 | 053 B | 2735 | 14755 | 0982 | 03241 | 0788 |
| 1000 | 0283 B | 34388 | 061 | 2743 | 14776 | 1134 | 04645 | 0718 |
| 1200 | 0259 | 34439 | 065 | 2750 | 14800 | 1274 | 06226 | 0665 |
| 1500 | 0230 | 34507 | 069 | 2757 | 14839 | 1466 | 08884 | 0598 |
| 2000 | 0193 B | 34592 | 139 | 2767 | 14909 | 1749 | 13928 | 0514 |
| 2500 | 0171 | 34631 | 202 | 2772 | 14985 | 2001 | 19764 | 0477 |
| 3000 | 0158 | 34657 | 261 | 2775 | 15066 | 2239 | 26512 | 0455 |
| 3500 | 0153 | 34673 | 301 | 2777 | 15152 | 2471 | 34312 | 0451 |
| 4000 | 0151 | 34677 | 325 | 2777 | 15239 | 2704 | 43390 | 0459 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 2355 | AIR T 08.4 | VIS 7 |
| CONS. NO 015 | MONTH 6 | MXSAMPD 42 | WAVES 2 2555 | WET B 07.4 | STN 203 |
| LAT 50-050N | DAY 03 | NO.DPTH 27 | WND-DIR 220 | WW-CODE 02 | |
| LON 145-000W | HR 21.6 | W-COLOR 10 | WND-SPD 07 | CLD-TPE 3 | |
| MARSD SQ 195 | C/I 1802 | W-TRNSP 16 | BARO 1015.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 216 | 0000 | 084 B | 32528 | 697 | 2530 | 14812 |
| 216 | 0010 | 0819 | 32528 | 703 | 2533 | 14806 |
| 216 | 0020 | 0810 | 32524 | 710 | 2534 | 14804 |
| 216 | 0029 | 0793 | 32529 | 694 | 2537 | 14799 |
| 216 | 0049 | 0589 | 32574 | 733 | 2567 | 14722 |
| 216 | 0073 | 0553 | 32591 | 718 | 2573 | 14712 |
| 216 | 0097 | 0520 | 32623 | 699 | 2579 | 14703 |
| 216 | 0122 | 0474 | 33270 | 496 | 2636 | 14696 |
| 216 | 0146 | 0469 | 33654 | 358 | 2667 | 14703 |
| 216 | 0171 | 0452 | 33726 | 308 | 2674 | 14701 |
| 216 | 0195 | 0420 | 33781 | 265 | 2682 | 14693 |
| 216 | 0244 | 0389 B | 33838 | 181 | 2690 | 14688 |
| 216 | 0293 | 0381 | 33904 | 144 | 2696 | 14694 |
| 216 | 0392 | 0375 | 34032 | 090 | 2706 | 14710 |
| 216 | 0491 | 0369 | 34139 | 065 | 2716 | 14725 |
| 216 | 0591 | 0351 | 34210 | 060 | 2723 | 14735 |
| 230 | 0796 | 0315 | 34325 | 052 | 2735 | 14755 |
| 230 | 0995 | 0288 C | 34399 | 050 | 2744 | 14778 |
| 230 | 1194 | 0259 B | 34454 | 064 | 2751 | 14799 |
| 230 | 1493 | 0227 | 34509 | 091 | 2758 | 14836 |
| 230 | 1992 | 0190 | 34595 | 145 | 2768 | 14906 |
| 230 | 2490 | 0171 | 34633 | 209 | 2772 | 14983 |
| 230 | 2990 | 0157 | 34658 | 265 | 2775 | 15064 |
| 230 | 3490 | 0152 | 34670 | 302 | 2777 | 15149 |
| 230 | 3990 | 0150 | 34675 | 330 | 2777 | 15236 |
| 230 | 4090 | 0152 | 34675 | 319 | 2777 | 15255 |
| 230 | 4190 | 0151 B | | | | |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0840 B | 32528 | 697 | 2530 | 14812 | 0000 | 00000 | 2683 |
| 0010 | 0819 | 32528 | 703 | 2533 | 14806 | 0027 | 00001 | 2655 |
| 0020 | 0810 | 32524 | 710 | 2534 | 14804 | 0054 | 00005 | 2647 |
| 0030 | 0784 B | 32531 | 695 | 2538 | 14796 | 0080 | 00012 | 2607 |
| 0050 | 0585 | 32575 | 733 | 2568 | 14721 | 0130 | 00032 | 2326 |
| 0075 | 0550 | 3258 C | 720 | 2573 | 14711 | 0188 | 00069 | 2283 |
| 0100 | 0514 | 3269 E | 678 B | 2585 | 14701 | 0244 | 00119 | 2164 |
| 0125 | 0473 | 33333 | 475 | 2641 | 14697 | 0291 | 00174 | 1641 |
| 0150 | 0467 | 3368 C | 347 | 2669 | 14704 | 0329 | 00227 | 1379 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0175 | 0447 | 33736 | 301 | 2676 | 14700 | 0363 | 00284 | 1315 |
| 0200 | 0415 | 33788 | 255 | 2683 | 14692 | 0396 | 00346 | 1246 |
| 0225 | 0397 B | 33820 | 210 | 2687 | 14688 | 0427 | 00413 | 1205 |
| 0250 | 0387 B | 33846 | 175 | 2690 | 14689 | 0457 | 00486 | 1178 |
| 0300 | 0380 | 33914 | 139 | 2696 | 14695 | 0515 | 00650 | 1124 |
| 0400 | 0375 | 34042 | 087 | 2707 | 14711 | 0623 | 01038 | 1031 |
| 0500 | 0368 | 34146 | 064 | 2716 | 14726 | 0724 | 01499 | 0953 |
| 0600 | 0349 | 34216 | 060 | 2724 | 14735 | 0817 | 02024 | 0889 |
| 0700 | 0331 | 34276 | 055 | 2730 | 14745 | 0904 | 02604 | 0833 |
| 0800 | 0314 | 34327 | 052 | 2736 | 14755 | 0985 | 03234 | 0784 |
| 1000 | 0287 C | 34401 | 050 | 2744 | 14778 | 1137 | 04629 | 0713 |
| 1200 | 0258 B | 34455 | 064 | 2751 | 14800 | 1275 | 06189 | 0652 |
| 1500 | 0226 | 34510 | 092 | 2758 | 14837 | 1464 | 08807 | 0591 |
| 2000 | 0190 | 34596 | 146 | 2768 | 14907 | 1743 | 13788 | 0507 |
| 2500 | 0171 | 34634 | 210 | 2772 | 14985 | 1993 | 19568 | 0474 |
| 3000 | 0157 | 34658 | 266 | 2775 | 15066 | 2230 | 26280 | 0453 |
| 3500 | 0152 | 34670 | 303 | 2777 | 15151 | 2461 | 34065 | 0452 |
| 4000 | 0150 | 34675 | 324 | 2777 | 15239 | 2695 | 43148 | 0460 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 0462 | AIR T 08.9 | VIS 7 | |
| CONS. NO 016 | MONTH 6 | MXSAMPD 42 | WAVES 2 0083 | WET B 08.0 | STN 204 | |
| LAT 50-000N | DAY 12 | NO.DPTH 27 | WND-DIR 040 | WW-CODE 02 | | |
| LON 144-570W | HR 20.9 | W-COLOR 10 | WND-SPD 06 | CLD-TPE 6 | | |
| MARSD SQ 195 | C/I 1802 | W-TRNSP 17 | BARO 1014.5 | CLD-AMT 7 | HW | |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 209 | 0000 | 085 B | 32617 | 689 | 2535 | 14817 |
| 209 | 0010 | 0842 | 32541 | 697 | 2531 | 14815 |
| 209 | 0020 | 0825 | 32538 | 694 | 2533 | 14810 |
| 209 | 0030 | 0823 | 32534 | 693 | 2533 | 14811 |
| 209 | 0050 | 0539 B | 32586 | 715 | 2574 | 14702 |
| 209 | 0075 | 0484 | 32636 | 723 | 2584 | 14684 |
| 209 | 0100 | 0434 | 32774 | 682 | 2601 | 14669 |
| 209 | 0125 | 0438 | 33168 | 522 | 2631 | 14680 |
| 209 | 0150 | 0429 | 33524 | 388 | 2661 | 14686 |
| 209 | 0175 | 0466 | 33735 | 303 | 2673 | 14708 |
| 209 | 0200 | 0432 | 33755 | 278 | 2679 | 14698 |
| 209 | 0250 | 0402 B | 33810 | 208 | 2686 | 14694 |
| 209 | 0300 | 0384 | 33877 | 158 | 2693 | 14696 |
| 209 | 0400 | 0373 | 34004 | 096 | 2704 | 14710 |
| 209 | 0500 | 0368 | 34134 | 067 | 2715 | 14726 |
| 209 | 0600 | 0351 | 34211 | 061 | 2723 | 14736 |
| ǂ248 | 0800 | 0317 | 34333 | 045 | 2736 | 14757 |
| ǂ248 | 1000 | 0286 C | 34402 | 050 | 2744 | 14778 |
| ǂ248 | 1200 | 0258 | 34457 | 054 | 2751 | 14800 |
| ǂ248 | 1500 | 0230 | 34494 | 076 | 2756 | 14839 |
| ǂ248 | 2000 | 0192 | 34590 | 139 | 2767 | 14908 |
| ǂ248 | 2500 | 0171 | 34633 | 200 | 2772 | 14985 |
| ǂ248 | 3000 | 0158 | 34657 | 258 | 2775 | 15066 |
| ǂ248 | 3500 | 0152 | 34672 | 291 | 2777 | 15151 |
| ǂ248 | 4000 | 0151 | 34680 | 321 | 2777 | 15239 |
| ǂ248 | 4100 | 0152 | 34678 | 316 | 2777 | 15257 |
| ǂ248 | 4200 | 0152 B | 34683 | 325 | 2778 | 15275 |

ǂMULTIPLE CAST CONTINUED NEXT DAY

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0850 B | 32617 | 689 | 2535 | 14817 | 0000 | 00000 | 2631 |
| 0010 | 0842 | 32541 | 697 | 2531 | 14815 | 0027 | 00001 | 2678 |
| 0020 | 0825 | 32538 | 694 | 2533 | 14810 | 0054 | 00006 | 2658 |
| 0030 | 0823 | 32534 | 693 | 2533 | 14811 | 0080 | 00012 | 2659 |
| 0050 | 0539 B | 32586 | 715 | 2574 | 14702 | 0130 | 00032 | 2265 |
| 0075 | 0484 | 32636 | 723 | 2584 | 14684 | 0186 | 00068 | 2171 |
| 0100 | 0434 | 32774 | 682 | 2601 | 14669 | 0238 | 00115 | 2018 |
| 0125 | 0438 | 33168 | 522 | 2631 | 14680 | 0286 | 00169 | 1728 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0150 | 0429 | 33524 | 388 | 2661 | 14686 | 0326 | 00225 | 1454 |
| 0175 | 0466 | 33735 | 303 | 2673 | 14708 | 0361 | 00283 | 1337 |
| 0200 | 0432 | 33755 | 278 | 2679 | 14698 | 0394 | 00347 | 1288 |
| 0225 | 0413 B | 33781 | 243 | 2683 | 14695 | 0426 | 00417 | 1251 |
| 0250 | 0402 B | 33810 | 208 | 2686 | 14694 | 0457 | 00493 | 1220 |
| 0300 | 0384 | 33877 | 158 | 2693 | 14696 | 0517 | 00661 | 1155 |
| 0400 | 0373 | 34004 | 096 | 2704 | 14710 | 0629 | 01060 | 1057 |
| 0500 | 0368 | 34134 | 067 | 2715 | 14726 | 0730 | 01529 | 0962 |
| 0600 | 0351 | 34211 | 061 | 2723 | 14736 | 0824 | 02058 | 0895 |
| 0700 | 0334 | 34278 | 052 | 2730 | 14746 | 0912 | 02640 | 0834 |
| 0800 | 0317 | 34333 | 045 | 2736 | 14757 | 0993 | 03269 | 0782 |
| 1000 | 0286 C | 34402 | 050 | 2744 | 14778 | 1144 | 04661 | 0710 |
| 1200 | 0258 | 34457 | 054 | 2751 | 14800 | 1282 | 06217 | 0651 |
| 1500 | 0230 | 34494 | 076 | 2756 | 14839 | 1474 | 08869 | 0608 |
| 2000 | 0192 | 34590 | 139 | 2767 | 14908 | 1759 | 13952 | 0514 |
| 2500 | 0171 | 34633 | 200 | 2772 | 14985 | 2011 | 19776 | 0475 |
| 3000 | 0158 | 34657 | 258 | 2775 | 15066 | 2248 | 26514 | 0456 |
| 3500 | 0152 | 34672 | 291 | 2777 | 15151 | 2480 | 34309 | 0451 |
| 4000 | 0151 | 34680 | 321 | 2777 | 15239 | 2713 | 43357 | 0457 |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 1662 | AIR T 09.1 | VIS 7 |
| CONS. NO 017 | MONTH 6 | MXSAMPD 42 | WAVES 2 2292 | WET B 08.1 | STN 205 |
| LAT 49-59ON | DAY 17 | NO.DPTH 26 | WND-DIR 160 | WW-CODE 02 | |
| LON 145-02OW | HR 19.2 | W-COLOR 10 | WND-SPD 04 | CLD-TPE 6 | |
| MARSD SQ 159 | C/I 1802 | W-TRNSP 16 | BARO 1008.9 | CLD-AMT 6 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 192 | 0000 | 091 B | 32527 | 682 | 2519 | 14839 |
| 192 | 0010 | 0894 | 32522 | 688 | 2521 | 14834 |
| 192 | 0020 | 0879 | 32518 | 684 | 2523 | 14830 |
| 192 | 0030 | 0847 | 32520 | 693 | 2528 | 14820 |
| 192 | 0050 | 0555 B | 32576 | 738 | 2572 | 14709 |
| 192 | 0075 | 0500 | 32621 | 719 | 2581 | 14691 |
| 192 | 0100 | 0460 | 32739 | 667 | 2595 | 14680 |
| 192 | 0125 | 0463 | 33301 | 483 | 2639 | 14693 |
| 192 | 0150 | 0458 | 33565 | 384 | 2661 | 14698 |
| 192 | 0175 | 0449 B | 33733 | 305 | 2675 | 14701 |
| 192 | 0200 | 0434 | 33778 | 266 | 2680 | 14699 |
| 192 | 0250 | 0401 | 33844 | 180 | 2689 | 14695 |
| 192 | 0300 | 0381 | 33913 | 145 | 2696 | 14695 |
| 192 | 0400 | 0372 | 34032 | 102 | 2707 | 14710 |
| 192 | 0500 | 0369 | 34124 | 075 | 2714 | 14726 |
| 192 | 0600 | 0349 | 34190 | 069 | 2722 | 14735 |
| 209 | 0800 | 0319 | 34319 | 050 | 2735 | 14757 |
| 209 | 1000 | 0290 C | 34385 | 056 | 2743 | 14779 |
| 209 | 1200 | 0259 B | 34454 | 064 | 2751 | 14800 |
| 209 | 1500 | 0225 | 34518 | 093 | 2759 | 14837 |
| 209 | 2000 | 0189 B | 34597 | 147 | 2768 | 14907 |
| 209 | 2500 | 0171 | | 213 | | |
| 209 | 3000 | 0157 | | 260 | | |
| 209 | 3500 | 0151 | | 298 | | |
| 209 | 4000 | 0151 | | | | |
| 209 | 4200 | 0153 B | | | | |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0910 B | 32527 | 682 | 2519 | 14839 | 0000 | 00000 | 2786 |
| 0010 | 0894 | 32522 | 688 | 2521 | 14834 | 0028 | 00001 | 2767 |
| 0020 | 0879 | 32518 | 684 | 2523 | 14830 | 0056 | 00006 | 2750 |
| 0030 | 0847 | 32520 | 693 | 2528 | 14820 | 0083 | 00013 | 2704 |
| 0050 | 0555 B | 32576 | 738 | 2572 | 14709 | 0133 | 00033 | 2291 |
| 0075 | 0500 | 32621 | 719 | 2581 | 14691 | 0190 | 00069 | 2199 |
| 0100 | 0460 | 32739 | 667 | 2595 | 14680 | 0244 | 00117 | 2071 |
| 0125 | 0463 | 33301 | 483 | 2639 | 14693 | 0290 | 00170 | 1654 |
| 0150 | 0458 | 33565 | 384 | 2661 | 14698 | 0330 | 00225 | 1453 |
| 0175 | 0449 B | 33733 | 305 | 2675 | 14701 | 0365 | 00283 | 1320 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0200 | 0434 | 33778 | 266 | 2680 | 14699 | 0397 | 00346 | 1273 |
| 0225 | 0417 | 33813 | 220 | 2685 | 14697 | 0429 | 00415 | 1231 |
| 0250 | 0401 | 33844 | 180 | 2689 | 14695 | 0459 | 00489 | 1193 |
| 0300 | 0381 | 33913 | 145 | 2696 | 14695 | 0518 | 00654 | 1125 |
| 0400 | 0372 | 34032 | 102 | 2707 | 14710 | 0627 | 01044 | 1035 |
| 0500 | 0369 | 34124 | 075 | 2714 | 14726 | 0728 | 01510 | 0971 |
| 0600 | 0349 | 34190 | 069 | 2722 | 14735 | 0823 | 02046 | 0908 |
| 0700 | 0333 | 34259 | 059 | 2729 | 14746 | 0912 | 02637 | 0848 |
| 0800 | 0319 | 34319 | 050 | 2735 | 14757 | 0995 | 03276 | 0795 |
| 1000 | 0290 C | 34385 | 056 | 2743 | 14779 | 1149 | 04696 | 0727 |
| 1200 | 0259 B | 34454 | 064 | 2751 | 14800 | 1289 | 06274 | 0654 |
| 1500 | 0225 | 34518 | 093 | 2759 | 14837 | 1477 | 08878 | 0584 |
| 2000 | 0189 B | 34597 | 147 | 2768 | 14907 | 1754 | 13822 | 0505 |
| 2500 | 0171 | | 213 | | | | | |
| 3000 | 0157 | | 260 | | | | | |
| 3500 | 0151 | | 298 | | | | | |
| 4000 | 0151 | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 4279 | WAVES 1 1852 | AIR T 09.9 | VIS 7 | |
| CONS. NO 018 | MONTH 6 | MXSAMPD 42 | WAVES 2 2794 | WET B 09.2 | STN 206 | |
| LAT 50-010N | DAY 24 | NO.DPTH 26 | WND-DIR 180 | WW-CODE 02 | | |
| LON 145-000W | HR 19.2 | W-COLOR | WND-SPD 08 | CLD-TPE 8 | | |
| MARSD SQ 195 | C/I 1802 | W-TRNSP | BARO 1009.0 | CLD-AMT 4 | HW | |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 192 | 0000 | 096 B | 32499 | 665 | 2509 | 14857 |
| 192 | 0010 | 0932 | 32510 | 669 | 2514 | 14849 |
| 192 | 0020 | 0930 B | 32499 | 668 | 2514 | 14849 |
| 192 | 0030 | 0911 | 32492 | 676 | 2516 | 14844 |
| 192 | 0050 | 0545 | 32574 | 726 | 2573 | 14705 |
| 192 | 0075 | 0499 | 32594 | 719 | 2579 | 14690 |
| 192 | 0100 | 0461 | 32639 | 715 | 2587 | 14679 |
| 192 | 0125 | 0436 | 32784 | 658 | 2601 | 14674 |
| 192 | 0150 | 0449 | 33277 | 481 | 2639 | 14691 |
| 192 | 0175 | 0468 | 33613 | 364 | 2663 | 14707 |
| 192 | 0200 | 0443 | 33716 | 312 | 2674 | 14702 |
| 192 | 0250 | 0410 B | 33781 | 233 | 2683 | 14697 |
| 192 | 0300 | 0393 | 33876 | 160 | 2692 | 14700 |
| 192 | 0400 | 0377 | 34010 | 100 | 2704 | 14711 |
| 192 | 0500 | 0372 | 34111 | 076 | 2713 | 14727 |
| 192 | 0600 | 0356 | 34190 | 061 | 2721 | 14738 |
| 210 | 0800 | 0316 B | 34314 | 054 | 2735 | 14756 |
| 210 | 1000 | 0287 | 34382 | 069 | 2743 | 14778 |
| 210 | 1200 | 0262 B | 34448 | 067 | 2750 | 14801 |
| 210 | 1500 | 0230 | 34500 | 088 | 2757 | 14839 |
| 210 | 2000 | 0193 B | 34591 | 141 | 2767 | 14909 |
| 210 | 2500 | 0172 | 34632 | 210 | 2772 | 14986 |
| 210 | 3000 | 0157 | 34660 | 266 | 2775 | 15066 |
| 210 | 3500 | 0153 | 34670 | 304 | 2776 | 15151 |
| 210 | 4000 | 0151 | 34682 | 325 | 2778 | 15239 |
| 210 | 4200 | 0153 | 34683 | 331 | 2778 | 15275 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 0960 B | 32499 | 665 | 2509 | 14857 | 0000 | 00000 | 2882 |
| 0010 | 0932 | 32510 | 669 | 2514 | 14849 | 0029 | 00001 | 2833 |
| 0020 | 0930 B | 32499 | 668 | 2514 | 14849 | 0057 | 00006 | 2840 |
| 0030 | 0911 | 32492 | 676 | 2516 | 14844 | 0086 | 00013 | 2818 |
| 0050 | 0545 | 32574 | 726 | 2573 | 14704 | 0137 | 00034 | 2281 |
| 0075 | 0499 | 32594 | 719 | 2579 | 14690 | 0194 | 00070 | 2218 |
| 0100 | 0461 | 32639 | 715 | 2587 | 14679 | 0249 | 00119 | 2147 |
| 0125 | 0436 | 32784 | 658 | 2601 | 14674 | 0301 | 00179 | 2014 |
| 0150 | 0449 | 33277 | 481 | 2639 | 14691 | 0347 | 00244 | 1660 |
| 0175 | 0468 | 33613 | 364 | 2663 | 14707 | 0386 | 00308 | 1430 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0200 | 0443 | 33716 | 312 | 2674 | 14702 | 0421 | 00375 | 1329 |
| 0225 | 0424 | 3376 C | 270 | 2680 | 14699 | 0454 | 00447 | 1279 |
| 0250 | 0410 B | 33781 | 233 | 2683 | 14697 | 0486 | 00525 | 1250 |
| 0300 | 0393 | 33876 | 160 | 2692 | 14700 | 0547 | 00696 | 1165 |
| 0400 | 0377 | 34010 | 100 | 2704 | 14711 | 0659 | 01096 | 1057 |
| 0500 | 0372 | 34111 | 076 | 2713 | 14727 | 0762 | 01571 | 0984 |
| 0600 | 0356 | 34190 | 061 | 2721 | 14738 | 0858 | 02111 | 0916 |
| 0700 | 0336 | 34258 | 054 | 2728 | 14747 | 0947 | 02706 | 0851 |
| 0800 | 0316 B | 34314 | 054 | 2735 | 14756 | 1030 | 03347 | 0795 |
| 1000 | 0287 | 34382 | 069 | 2743 | 14778 | 1184 | 04766 | 0726 |
| 1200 | 0262 B | 34448 | 067 | 2750 | 14801 | 1325 | 06352 | 0662 |
| 1500 | 0230 | 34500 | 088 | 2757 | 14839 | 1517 | 09015 | 0603 |
| 2000 | 0193 B | 34591 | 141 | 2767 | 14909 | 1801 | 14082 | 0515 |
| 2500 | 0172 | 34632 | 210 | 2772 | 14986 | 2054 | 19922 | 0477 |
| 3000 | 0157 | 34660 | 266 | 2775 | 15066 | 2291 | 26645 | 0452 |
| 3500 | 0153 | 34670 | 304 | 2776 | 15152 | 2522 | 34440 | 0454 |
| 4000 | 0151 | 34682 | 325 | 2778 | 15239 | 2755 | 43500 | 0456 |

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|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3909 | WAVES 1 0954 | AIR T 10.9 | VIS 1 |
| CONS. NO 019 | MONTH 7 | MXSAMPD 04 | WAVES 2 0963 | WET B 10.5 | STN 012 |
| LAT 49-490N | DAY 01 | NO.DPTH 14 | WND-DIR 090 | WW-CODE | |
| LON 142-400W | HR 06.6 | W-COLOR | WND-SPD 12 | CLD-TPE | |
| MARSD SQ 159 | C/I 1802 | W-TRNSP | BARO 1014.2 | CLD-AMT 9 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 066 | 0000 | 103 B | 32453 | | 2494 | 14882 |
| 066 | 0010 | 1007 | 32448 | | 2497 | 14875 |
| 066 | 0020 | 0991 | 32474 | | 2502 | 14872 |
| 066 | 0029 | 0983 | 32467 | | 2503 | 14870 |
| 066 | 0049 | 0843 | 32491 | | 2526 | 14821 |
| 066 | 0073 | 0577 | 32547 | | 2567 | 14721 |
| 066 | 0097 | 0536 | 32605 | | 2576 | 14709 |
| 066 | 0122 | 0456 | 33246 | | 2636 | 14688 |
| 066 | 0146 | 0433 | 33483 | | 2657 | 14686 |
| 066 | 0171 | 0413 | 33583 | | 2667 | 14683 |
| 066 | 0195 | 0394 | 33699 | | 2678 | 14681 |
| 066 | 0244 | 0379 B | 33804 | | 2688 | 14684 |
| 066 | 0293 | 0373 | 33880 | | 2695 | 14690 |
| 066 | 0393 | 0365 | 34026 | | 2707 | 14705 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1030 B | 32453 | | 2494 | 14882 | 0000 | 00000 | 3027 |
| 0010 | 1007 | 32448 | | 2497 | 14875 | 0030 | 00002 | 2996 |
| 0020 | 0991 | 32474 | | 2502 | 14872 | 0060 | 00006 | 2953 |
| 0030 | 0979 | 32467 | | 2503 | 14869 | 0090 | 00014 | 2941 |
| 0050 | 0831 | 32493 | | 2528 | 14817 | 0147 | 00037 | 2704 |
| 0075 | 0570 B | 3254 B | | 2567 | 14718 | 0210 | 00077 | 2336 |
| 0100 | 0526 | 3268 F | | 2583 | 14706 | 0267 | 00128 | 2188 |
| 0125 | 0452 | 3329 B | | 2640 | 14688 | 0315 | 00183 | 1651 |
| 0150 | 0430 | 3350 B | | 2659 | 14686 | 0355 | 00238 | 1470 |
| 0175 | 0410 | 33603 | | 2669 | 14683 | 0390 | 00297 | 1377 |
| 0200 | 0392 | 33714 | | 2680 | 14681 | 0424 | 00362 | 1277 |
| 0225 | 0382 B | 3378 B | | 2685 | 14682 | 0455 | 00430 | 1224 |
| 0250 | 0378 B | 33814 | | 2689 | 14684 | 0486 | 00504 | 1192 |
| 0300 | 0370 B | 3390 B | | 2696 | 14690 | 0544 | 00669 | 1126 |
| 0400 | 0365 | 34034 | | 2708 | 14707 | 0653 | 01057 | 1027 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3774 | WAVES 1 1052 | AIR T 12.7 | VIS 8 |
| CONS. NO 020 | MONTH 7 | MXSAMPD 35 | WAVES 2 1765 | WET B 11.1 | STN 009 |
| LAT 49-26ON | DAY 02 | NO.DPTH 24 | WND-DIR 100 | WW-CODE 01 | |
| LON 136-40OW | HR 02.6 | W-COLOR | WND-SPD 08 | CLD-TPE 0 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP 17 | BARO 1022.0 | CLD-AMT 2 | HW |

OBSERVED

| GMT | DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 026 | 0000 | 109 B | 32453 | | 2483 | 14904 |
| 026 | 0010 | 1078 | 32443 | | 2485 | 14901 |
| 026 | 0020 | 1050 | 32467 | | 2491 | 14893 |
| 026 | 0030 | 1010 | 32429 | | 2495 | 14880 |
| 026 | 0050 | 0741 B | 32508 | | 2542 | 14782 |
| 026 | 0074 | 0616 | 32536 | | 2561 | 14737 |
| 026 | 0099 | 0595 | 32548 | | 2565 | 14733 |
| 026 | 0123 | 0540 | 32826 | | 2593 | 14718 |
| 026 | 0148 | 0497 | 33419 | | 2645 | 14712 |
| 026 | 0173 | 0492 | 33669 | | 2665 | 14717 |
| 026 | 0198 | 0458 | 33754 | | 2676 | 14709 |
| 026 | 0247 | 0415 | 33811 | | 2685 | 14699 |
| 026 | 0297 | 0391 | 33864 | | 2691 | 14698 |
| 026 | 0396 | 0391 | 34004 | | 2703 | 14717 |
| 026 | 0496 | 0370 | 34099 | | 2712 | 14725 |
| 026 | 0596 | 0356 | | | | |
| 035 | 0800 | 0327 B | 34305 | | 2733 | 14760 |
| 035 | 1000 | 0301 C | 34403 | | 2743 | 14784 |
| 035 | 1200 | 0274 B | 34450 | | 2749 | 14806 |
| 035 | 1500 | 0230 | 34511 | | 2758 | 14839 |
| 035 | 2000 | 0191 | 34589 | | 2767 | 14908 |
| 035 | 2500 | 0171 | 34639 | | 2773 | 14985 |
| 035 | 3000 | 0157 | 34661 | | 2775 | 15066 |
| 035 | 3500 | 0156 | 34684 | | 2777 | 15153 |

INTERPOLATED

| DEPTH | TEMP | SAL | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1090 B | 32453 | | 2483 | 14904 | 0000 | 00000 | 3125 |
| 0010 | 1078 | 32443 | | 2485 | 14901 | 0031 | 00002 | 3115 |
| 0020 | 1050 | 32467 | | 2491 | 14893 | 0062 | 00006 | 3053 |
| 0030 | 1010 | 32429 | | 2495 | 14880 | 0093 | 00014 | 3018 |
| 0050 | 0741 B | 32508 | | 2542 | 14782 | 0149 | 00037 | 2570 |
| 0075 | 0614 | 32534 | | 2561 | 14736 | 0212 | 00076 | 2394 |
| 0100 | 0593 | 32554 | | 2565 | 14732 | 0271 | 00130 | 2356 |
| 0125 | 0536 | 3287 C | | 2597 | 14717 | 0327 | 00194 | 2053 |
| 0150 | 0496 | 33448 | | 2647 | 14713 | 0373 | 00257 | 1582 |
| 0175 | 0490 | 33680 | | 2666 | 14717 | 0410 | 00320 | 1404 |
| 0200 | 0456 | 33758 | | 2676 | 14708 | 0444 | 00386 | 1311 |
| 0225 | 0431 | 3380 B | | 2682 | 14702 | 0477 | 00456 | 1260 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0250 | 0413 | 33814 | | 2685 | 14699 | 0508 | 00533 | 1228 |
| 0300 | 0391 | 33868 | | 2692 | 14699 | 0569 | 00703 | 1169 |
| 0400 | 0390 | 34008 | | 2703 | 14717 | 0682 | 01107 | 1072 |
| 0500 | 0369 | 34102 | | 2713 | 14726 | 0786 | 01585 | 0988 |
| 0600 | 0355 | 34180 | | 2720 | 14738 | 0882 | 02129 | 0922 |
| 0700 | 0341 | 34248 | | 2727 | 14749 | 0972 | 02731 | 0864 |
| 0800 | 0327 B | 34305 | | 2733 | 14760 | 1057 | 03384 | 0814 |
| 1000 | 0301 C | 34403 | | 2743 | 14784 | 1213 | 04818 | 0726 |
| 1200 | 0274 B | 34450 | | 2749 | 14806 | 1355 | 06418 | 0674 |
| 1500 | 0230 | 34511 | | 2758 | 14839 | 1548 | 09085 | 0595 |
| 2000 | 0191 | 34589 | | 2767 | 14908 | 1830 | 14115 | 0514 |
| 2500 | 0171 | 34639 | | 2773 | 14985 | 2080 | 19908 | 0470 |
| 3000 | 0157 | 34661 | | 2775 | 15066 | 2315 | 26583 | 0451 |
| 3500 | 0156 | 34684 | | 2777 | 15153 | 2545 | 34321 | 0448 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3549 | WAVES 1 1062 | AIR T 11.6 | VIS 8 |
| CONS. NO 021 | MONTH 7 | MXSAMPD 04 | WAVES 2 1684 | WET B 08.9 | STN 008 |
| LAT 49-17ON | DAY 02 | NO.DPTH 14 | WND-DIR 110 | WW-CODE 03 | |
| LON 134-40OW | HR 10.3 | W-COLOR | WND-SPD 05 | CLD-TPE 8 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP | BARO 1021.4 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 103 | 0000 | 113 B | | | | |
| 103 | 0010 | 1097 | 32450 | | 2482 | 14908 |
| 103 | 0020 | 1042 | 32443 | | 2491 | 14890 |
| 103 | 0030 | 1026 | 32444 | | 2494 | 14886 |
| 103 | 0050 | 0686 | 32523 | | 2551 | 14761 |
| 103 | 0075 | 0620 | 32514 | | 2559 | 14738 |
| 103 | 0100 | 0600 | 32542 | | 2564 | 14735 |
| 103 | 0125 | 0559 B | 32730 | | 2583 | 14725 |
| 103 | 0150 | 0518 | 33248 | | 2629 | 14719 |
| 103 | 0175 | 0536 | 33660 | | 2659 | 14736 |
| 103 | 0200 | 0538 | 33798 | | 2670 | 14743 |
| 103 | 0250 | 0471 | 33806 | | 2678 | 14723 |
| 103 | 0300 | 0428 | 33839 | | 2686 | 14714 |
| 103 | 0400 | 0381 | 33933 | | 2698 | 14712 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1130 B | 3248 C | | 2478 | 14918 | 0000 | 00000 | 3173 |
| 0010 | 1097 | 32450 | | 2482 | 14908 | 0032 | 00002 | 3141 |
| 0020 | 1042 | 32443 | | 2491 | 14890 | 0063 | 00006 | 3057 |
| 0030 | 1026 | 32444 | | 2494 | 14886 | 0094 | 00014 | 3033 |
| 0050 | 0686 | 32523 | | 2551 | 14761 | 0149 | 00036 | 2487 |
| 0075 | 0620 | 32514 | | 2559 | 14738 | 0211 | 00076 | 2415 |
| 0100 | 0600 | 32542 | | 2564 | 14735 | 0271 | 00130 | 2373 |
| 0125 | 0559 B | 32730 | | 2583 | 14725 | 0328 | 00196 | 2188 |
| 0150 | 0518 | 33248 | | 2629 | 14719 | 0378 | 00265 | 1756 |
| 0175 | 0536 | 33660 | | 2659 | 14736 | 0419 | 00332 | 1471 |
| 0200 | 0538 | 33798 | | 2670 | 14743 | 0455 | 00401 | 1373 |
| 0225 | 0509 C | 3382 E | | 2675 | 14735 | 0489 | 00475 | 1324 |
| 0250 | 0471 | 33806 | | 2678 | 14723 | 0522 | 00556 | 1296 |
| 0300 | 0428 | 33839 | | 2686 | 14714 | 0585 | 00735 | 1230 |
| 0400 | 0381 | 33933 | | 2698 | 14712 | 0704 | 01158 | 1118 |

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|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 3275 | WAVES 1 0471 | AIR T 16.1 | VIS 9 |
| CONS. NO 022 | MONTH 7 | MXSAMPD 04 | WAVES 2 0882 | WET B 13.3 | STN 007 |
| LAT 49-100N | DAY 02 | NO.DPTH 14 | WND-DIR 040 | WW-CODE 03 | |
| LON 132-400W | HR 16.5 | W-COLOR 10 | WND-SPD 03 | CLD-TPE 8 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP 18 | BARO 1020.0 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 165 | 0000 | 118 B | 32387 | | 2462 | 14935 |
| 165 | 0010 | 1173 | 32394 | | 2464 | 14934 |
| 165 | 0020 | 1139 | 32398 | | 2470 | 14924 |
| 165 | 0030 | 0993 | 32459 | | 2500 | 14874 |
| 165 | 0050 | 0685 | 32512 | | 2550 | 14760 |
| 165 | 0075 | 0626 | 32616 | | 2566 | 14742 |
| 165 | 0100 | 0618 | 32845 | | 2585 | 14746 |
| 165 | 0125 | 0653 | 33162 | | 2606 | 14768 |
| 165 | 0150 | 0664 | 33528 | | 2633 | 14782 |
| 165 | 0175 | 0653 | 33726 | | 2650 | 14784 |
| 165 | 0200 | 0620 | 33804 | | 2660 | 14776 |
| 165 | 0250 | 0551 | 33858 | | 2673 | 14757 |
| 165 | 0300 | 0520 | 33922 | | 2682 | 14753 |
| 165 | 0400 | 0463 | 33993 | | 2694 | 14747 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1180 B | 32387 | | 2462 | 14935 | 0000 | 00000 | 3328 |
| 0010 | 1173 | 32394 | | 2464 | 14934 | 0033 | 00002 | 3313 |
| 0020 | 1139 | 32398 | | 2470 | 14924 | 0066 | 00007 | 3253 |
| 0030 | 0993 | 32459 | | 2500 | 14874 | 0098 | 00015 | 2969 |
| 0050 | 0685 | 32512 | | 2550 | 14760 | 0153 | 00037 | 2494 |
| 0075 | 0626 | 32616 | | 2566 | 14742 | 0214 | 00076 | 2346 |
| 0100 | 0618 | 32845 | | 2585 | 14746 | 0270 | 00126 | 2169 |
| 0125 | 0653 | 33162 | | 2606 | 14768 | 0323 | 00186 | 1978 |
| 0150 | 0664 | 33528 | | 2633 | 14781 | 0369 | 00251 | 1723 |
| 0175 | 0653 | 33726 | | 2650 | 14784 | 0411 | 00320 | 1565 |
| 0200 | 0620 | 33804 | | 2660 | 14776 | 0449 | 00394 | 1468 |
| 0225 | 0583 | 3384 B | | 2668 | 14766 | 0485 | 00472 | 1400 |
| 0250 | 0551 | 33858 | | 2673 | 14757 | 0520 | 00557 | 1350 |
| 0300 | 0520 | 33922 | | 2682 | 14753 | 0586 | 00743 | 1271 |
| 0400 | 0463 | 33993 | | 2694 | 14747 | 0708 | 01181 | 1163 |

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|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 2929 | WAVES 1 2652 | AIR T 13.7 | VIS 7 |
| CONS. NO 023 | MONTH 7 | MXSAMPD 15 | WAVES 2 0482 | WET B 12.3 | STN 006 |
| LAT 49-020N | DAY 02 | NO.DPTH 20 | WND-DIR 260 | WW-CODE 03 | |
| LON 130-400W | HR 22.8 | W-COLOR 20 | WND-SPD 05 | CLD-TPE 6 | |
| MARSD SQ 158 | C/I 1802 | W-TRNSP 14 | BARO 1019.2 | CLD-AMT 8 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 228 | 0000 | 137 B | 32156 | | 2408 | 14997 |
| 228 | 0010 | 1270 | 32160 | | 2428 | 14965 |
| 228 | 0020 | 1261 | 32165 | | 2430 | 14963 |
| 228 | 0030 | 1213 | 32265 | | 2446 | 14950 |
| 228 | 0050 | 0836 B | 32428 | | 2523 | 14818 |
| 228 | 0074 | 0720 | 32828 | | 2570 | 14782 |
| 228 | 0099 | 0719 | 33259 | | 2604 | 14791 |
| 228 | 0124 | 0729 | 33637 | | 2633 | 14804 |
| 228 | 0148 | 0714 | 33802 | | 2648 | 14805 |
| 228 | 0173 | 0703 | 33855 | | 2653 | 14805 |
| 228 | 0198 | 0677 B | 33888 | | 2660 | 14799 |
| 228 | 0248 | 0626 | 33947 | | 2671 | 14788 |
| 228 | 0297 | 0574 | 33978 | | 2680 | 14776 |
| 228 | 0397 | 0517 | 34024 | | 2690 | 14769 |
| 234 | 0500 | 0463 | 34077 | | 2701 | 14765 |
| 234 | 0600 | 0431 | 34162 | | 2711 | 14769 |
| 234 | 0800 | 0380 B | 34294 | | 2727 | 14783 |
| 234 | 1000 | 0327 B | 34374 | | 2738 | 14795 |
| 234 | 1200 | 0286 B | 34432 | | 2747 | 14811 |
| 234 | 1500 | 0242 | 34516 | | 2757 | 14844 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1370 B | 32156 | | 2408 | 14997 | 0000 | 00000 | 3848 |
| 0010 | 1270 | 32160 | | 2428 | 14965 | 0038 | 00002 | 3659 |
| 0020 | 1261 | 32165 | | 2430 | 14963 | 0074 | 00008 | 3641 |
| 0030 | 1213 | 32265 | | 2446 | 14950 | 0110 | 00017 | 3483 |
| 0050 | 0836 B | 32428 | | 2523 | 14818 | 0173 | 00042 | 2760 |
| 0075 | 0719 | 32846 | | 2572 | 14782 | 0237 | 00082 | 2292 |
| 0100 | 0720 | 33277 | | 2606 | 14792 | 0290 | 00129 | 1976 |
| 0125 | 0729 | 33647 | | 2634 | 14804 | 0337 | 00182 | 1716 |
| 0150 | 0713 | 33809 | | 2648 | 14805 | 0378 | 00241 | 1579 |
| 0175 | 0701 | 33858 | | 2654 | 14805 | 0417 | 00306 | 1530 |
| 0200 | 0675 B | 33891 | | 2660 | 14799 | 0455 | 00379 | 1474 |
| 0225 | 0650 | 33922 | | 2666 | 14793 | 0492 | 00458 | 1421 |
| 0250 | 0624 | 33949 | | 2671 | 14787 | 0527 | 00544 | 1372 |
| 0300 | 0572 | 33980 | | 2680 | 14775 | 0594 | 00733 | 1290 |
| 0400 | 0515 | 34025 | | 2691 | 14769 | 0720 | 01182 | 1199 |
| 0500 | 0463 | 34077 | | 2701 | 14765 | 0836 | 01719 | 1110 |

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0600 | 0431 | 34162 | | 2711 | 14769 | 0944 | 02324 | 1019 |
| 0700 | 0405 | 34234 | | 2719 | 14776 | 1043 | 02985 | 0944 |
| 0800 | 0380 B | 34294 | | 2727 | 14783 | 1135 | 03695 | 0881 |
| 1000 | 0327 B | 34374 | | 2738 | 14795 | 1303 | 05238 | 0777 |
| 1200 | 0286 B | 34432 | | 2747 | 14811 | 1453 | 06924 | 0700 |
| 1500 | 0242 | 34516 | | 2757 | 14844 | 1651 | 09664 | 0605 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C-REF-NO 005 | YR 1968 | DEPTH C 2529 | WAVES 1 3151 | AIR T 13.8 | VIS 7 |
| CONS. NO 024 | MONTH 7 | MXSAMPD 04 | WAVES 2 0071 | WET B 12.7 | STN 005 |
| LAT 48-51ON | DAY 03 | NO.DPTH 14 | WND-DIR 310 | WW-CODE 01 | |
| LON 128-40OW | HR 05.5 | W-COLOR | WND-SPD 06 | CLD-TPE 3 | |
| MARSD SQ 157 | C/I 1802 | W-TRNSP | BARO 1018.5 | CLD-AMT 7 | HW |

O B S E R V E D

| GMT | DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND |
|---|---|---|---|---|---|---|
| 055 | 0000 | 134 B | 32153 | | 2413 | 14987 |
| 055 | 0010 | 1326 | 32134 | | 2415 | 14983 |
| 055 | 0020 | 1307 | 32239 | | 2426 | 14980 |
| 055 | 0030 | 1296 | 32280 | | 2432 | 14978 |
| 055 | 0049 | 0900 | 32406 | | 2511 | 14842 |
| 055 | 0074 | 0779 | 32447 | | 2532 | 14800 |
| 055 | 0098 | 0759 | 32987 | | 2578 | 14803 |
| 055 | 0123 | 0762 B | 33374 | | 2607 | 14814 |
| 055 | 0147 | 0730 | 33640 | | 2633 | 14809 |
| 055 | 0172 | 0686 | 33773 | | 2649 | 14797 |
| 055 | 0196 | 0657 B | 33808 | | 2656 | 14790 |
| 055 | 0246 | 0604 | 33863 | | 2667 | 14778 |
| 055 | 0294 | 0552 | 33891 | | 2676 | 14765 |
| 055 | 0394 | 0529 | 34040 | | 2690 | 14774 |

I N T E R P O L A T E D

| DEPTH | T E M P | S A L | OXYGEN | SGMT | SOUND | DELTA-D | POT.EN | SVA |
|---|---|---|---|---|---|---|---|---|
| 0000 | 1340 B | 32153 | | 2413 | 14987 | 0000 | 00000 | 3793 |
| 0010 | 1326 | 32134 | | 2415 | 14983 | 0038 | 00002 | 3782 |
| 0020 | 1307 | 32239 | | 2426 | 14980 | 0076 | 00008 | 3672 |
| 0030 | 1296 | 32280 | | 2432 | 14978 | 0112 | 00017 | 3623 |
| 0050 | 0890 | 3240 B | | 2513 | 14838 | 0177 | 00043 | 2856 |
| 0075 | 0777 | 3247 B | | 2534 | 14800 | 0247 | 00087 | 2653 |
| 0100 | 0759 | 33023 | | 2580 | 14804 | 0308 | 00141 | 2218 |
| 0125 | 0760 B | 33401 | | 2610 | 14813 | 0360 | 00201 | 1942 |
| 0150 | 0725 | 33662 | | 2635 | 14807 | 0406 | 00266 | 1703 |
| 0175 | 0682 | 33780 | | 2650 | 14796 | 0447 | 00334 | 1562 |
| 0200 | 0653 B | 33813 | | 2657 | 14789 | 0486 | 00408 | 1503 |
| 0225 | 0626 | 33843 | | 2663 | 14783 | 0523 | 00489 | 1450 |
| 0250 | 0599 | 33865 | | 2668 | 14776 | 0559 | 00577 | 1403 |
| 0300 | 0555 C | 3391 C | | 2677 | 14768 | 0628 | 00770 | 1321 |
| 0400 | 0529 | 34049 | | 2691 | 14775 | 0755 | 01224 | 1198 |

# SECTION IV

## Bathythermograms

## EXPLANATION OF DATA HEADINGS IN TABLES 1 AND 2

| | |
|---|---|
| CON No: | The consecutive BT slide number. |
| LAT: Deg<br>Min<br>LONG: | Position of platform at time of BT lowering. |
| DATE: Day<br>Mon<br>Yr | Day<br>Month<br>Year |
| GMT: Hrs<br>Min | The Greenwich Mean Time at which the BT lowering was made. |
| DEPTH: Metres | Depth to bottom in metres, as read from U.S. Coast and Geodetic Survey Chart 8500. |
| BAR: Mbs | Barometric pressure; prefix all listed values by 10 or by 9 if a minus (-) sign is present to obtain the pressure in whole millibars. |

eg. 02 = 1002 mbs
17 = 1017 mbs
-98 = 998 mbs
-86 = 986 mbs

| | |
|---|---|
| WW Code: | Refer to Table 7, Section II |
| WIND Amt: | Wind speed in meters per second |
| W-1: P<br>H<br>W-2: | Waves 1 and 2. Refer to Tables 4&5, Section II |
| CLOUD: T<br>A | Refer to Tables 8&9, Section II |

CCGS "VANCOUVER" 02-68-005

BATHYTHERMOGRAMS

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 001 | 50 | 00 | 145 | 02 | 21 | 05 | 68 | 03 | 00 | 4221 | -98 | 50 | 13 | 22 | | 23 | | 6 | 8 |
| 002 | 49 | 59 | 145 | 05 | 21 | 05 | 68 | 06 | 00 | 4221 | -98 | 61 | 13 | 52 | | 91 | | 7 | 8 |
| 003 | 50 | 02 | 145 | 02 | 21 | 05 | 68 | 09 | 00 | 4221 | -98 | 61 | 12 | 52 | | | | 7 | 8 |
| 004 | 50 | 01 | 145 | 01 | 21 | 05 | 68 | 12 | 00 | 4221 | -98 | 10 | 13 | 42 | | | | 7 | 8 |
| 005 | 50 | 03 | 145 | 00 | 21 | 05 | 68 | 15 | 00 | 4221 | -98 | 61 | 14 | 42 | | 02 | | 7 | 8 |
| 006 | 49 | 59 | 145 | 01 | 21 | 05 | 68 | 18 | 00 | 4221 | -99 | 61 | 10 | 52 | | 83 | | 7 | 8 |
| 007 | 50 | 02 | 145 | 01 | 21 | 05 | 68 | 21 | 00 | 4221 | -99 | 51 | 08 | 51 | | 83 | | 6 | 7 |
| 008 | 49 | 59 | 144 | 59 | 22 | 05 | 68 | 00 | 00 | 4221 | -99 | 02 | 10 | 51 | | 72 | | 7 | 8 |
| 009 | 49 | 59 | 144 | 57 | 22 | 05 | 68 | 03 | 00 | 4221 | -99 | 02 | 13 | 52 | | 72 | | 7 | 8 |
| 010 | 50 | 01 | 145 | 00 | 22 | 05 | 68 | 06 | 00 | 4221 | -99 | 10 | 10 | 32 | | 73 | | 7 | 8 |
| 011 | 50 | 01 | 144 | 59 | 22 | 05 | 68 | 09 | 00 | 4221 | -99 | 10 | 09 | 32 | | 54 | | 7 | 8 |
| 012 | 50 | 02 | 144 | 68 | 22 | 05 | 68 | 12 | 00 | 4221 | 00 | 10 | 04 | 31 | | 73 | | 7 | 8 |
| 013 | 50 | 03 | 144 | 56 | 22 | 05 | 68 | 15 | 00 | 4221 | 00 | 10 | 08 | 21 | | 74 | | 7 | 8 |
| 014 | 50 | 00 | 145 | 00 | 22 | 05 | 68 | 18 | 00 | 4221 | 01 | 10 | 10 | 41 | | 84 | | 7 | 8 |
| 015 | 50 | 02 | 144 | 57 | 22 | 05 | 68 | 21 | 00 | 4221 | 02 | 02 | 08 | 41 | | 93 | | 6 | 7 |
| 016 | 50 | 03 | 144 | 58 | 23 | 05 | 68 | 00 | 00 | 4221 | 03 | 02 | 13 | 31 | | 83 | | 6 | 7 |
| 017 | 49 | 59 | 144 | 57 | 23 | 05 | 68 | 03 | 00 | 4221 | 04 | 02 | 16 | 32 | | 83 | | 7 | 7 |
| 018 | 50 | 00 | 145 | 01 | 23 | 05 | 68 | 06 | 00 | 4221 | 05 | 02 | 14 | 42 | | 04 | | 6 | 8 |
| 019 | 50 | 02 | 144 | 58 | 23 | 05 | 68 | 09 | 00 | 4221 | 05 | 02 | 15 | 42 | | 03 | | 7 | 8 |
| 020 | 50 | 01 | 145 | 02 | 23 | 05 | 68 | 12 | 00 | 4221 | 05 | 02 | 18 | 42 | | 03 | | 6 | 8 |
| 021 | 50 | 01 | 145 | 00 | 23 | 05 | 68 | 15 | 00 | 4221 | 06 | 15 | 16 | 42 | | 04 | | 6 | 7 |
| 022 | 50 | 00 | 145 | 03 | 23 | 05 | 68 | 18 | 00 | 4221 | 06 | 20 | 12 | 42 | | 83 | | 6 | 8 |
| 023 | 49 | 58 | 145 | 02 | 23 | 05 | 68 | 21 | 00 | 4221 | 06 | 15 | 14 | 42 | | 83 | | 6 | 8 |
| 024 | 50 | 03 | 145 | 05 | 24 | 05 | 68 | 00 | 00 | 4221 | 06 | 02 | 17 | 42 | | 82 | | 6 | 8 |
| 025 | 50 | 05 | 145 | 00 | 24 | 05 | 68 | 03 | 00 | 4221 | 06 | 02 | 10 | 52 | | 82 | | 6 | 7 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 026 | 50 | 00 | 145 | 01 | 24 | 05 | 68 | 06 | 00 | 4221 | 06 | 02 | 10 | 52 | | 82 | | 6 | 8 |
| 027 | | | | | 24 | 05 | 68 | 09 | 00 | 4221 | 07 | 51 | 10 | 62 | | XX | | 7 | 8 |
| 028 | 50 | 01 | 145 | 00 | 24 | 05 | 68 | 12 | 00 | 4221 | 06 | 61 | 15 | 52 | | XX | | 7 | 8 |
| 029 | 50 | 04 | 144 | 56 | 24 | 05 | 68 | 15 | 00 | 4221 | 06 | 02 | 14 | 62 | | 82 | | 8 | 7 |
| 030 | 49 | 59 | 145 | 02 | 24 | 05 | 68 | 18 | 00 | 4221 | 08 | 02 | 16 | 52 | | 73 | | 6 | 7 |
| 031 | 49 | 59 | 145 | 00 | 24 | 05 | 68 | 21 | 00 | 4221 | 09 | 02 | 16 | 52 | | 72 | | 6 | 7 |
| 032 | 50 | 02 | 144 | 59 | 25 | 05 | 68 | 00 | 00 | 4221 | 09 | 02 | 21 | 53 | | 62 | | 6 | 7 |
| 033 | 49 | 55 | 144 | 55 | 25 | 05 | 68 | 03 | 00 | 4221 | 10 | 02 | 20 | 53 | | 62 | | 6 | 7 |
| 034 | 49 | 59 | 145 | 01 | 25 | 05 | 68 | 06 | 00 | 4221 | 11 | 02 | 21 | 53 | | 72 | | 6 | 7 |
| 035 | 50 | 00 | 144 | 58 | 25 | 05 | 68 | 09 | 00 | 4221 | 11 | 02 | 15 | 52 | | 72 | | 6 | 8 |
| 036 | 50 | 00 | 145 | 00 | 25 | 05 | 68 | 12 | 20 | 4221 | 12 | 02 | 19 | 52 | | | | 6 | 8 |
| 037 | 49 | 57 | 145 | 00 | 25 | 05 | 68 | 15 | 00 | 4221 | 13 | 25 | 16 | 52 | | 73 | | 6 | 7 |
| 038 | 50 | 00 | 145 | 05 | 25 | 05 | 68 | 18 | 00 | 4221 | 14 | 02 | 13 | 42 | | 72 | | 6 | 7 |
| 039 | 49 | 58 | 145 | 02 | 25 | 05 | 68 | 21 | 00 | 4221 | 15 | 01 | 08 | 41 | | 62 | | 3 | 3 |
| 040 | 49 | 58 | 145 | 04 | 26 | 05 | 68 | 00 | 00 | 4221 | 16 | 02 | 11 | 41 | | 02 | | 6 | 7 |
| 041 | 50 | 00 | 145 | 00 | 26 | 05 | 68 | 03 | 00 | 4221 | 17 | 02 | 08 | 41 | | 92 | | 6 | 8 |
| 042 | 49 | 58 | 145 | 01 | 26 | 05 | 68 | 06 | 00 | 4221 | 17 | 02 | 07 | 41 | | 92 | | 6 | 7 |
| 043 | 50 | 02 | 144 | 59 | 26 | 05 | 68 | 09 | 00 | 4221 | 17 | 02 | 07 | 31 | | 92 | | 6 | 8 |
| 044 | 49 | 58 | 145 | 01 | 26 | 05 | 68 | 12 | 00 | 4221 | 17 | 02 | 08 | 31 | | 92 | | 6 | 7 |
| 045 | 49 | 58 | 144 | 59 | 26 | 05 | 68 | 15 | 00 | 4221 | 17 | 02 | 07 | 31 | | 82 | | 6 | 7 |
| 046 | 50 | 01 | 145 | 01 | 26 | 05 | 68 | 18 | 00 | 4221 | 18 | 02 | 06 | 21 | | 71 | | 6 | 7 |
| 047 | 50 | 00 | 145 | 01 | 26 | 05 | 68 | 21 | 00 | 4221 | 17 | 01 | 03 | 21 | | 81 | | 8 | 6 |
| 048 | 50 | 02 | 144 | 58 | 27 | 05 | 68 | 00 | 00 | 4221 | 17 | 02 | 04 | 21 | | 72 | | 6 | 6 |
| 049 | 49 | 59 | 144 | 58 | 27 | 05 | 68 | 03 | 00 | 4221 | 16 | 02 | 06 | 21 | | 72 | | 6 | 8 |
| 050 | 49 | 56 | 145 | 02 | 27 | 05 | 68 | 06 | 00 | 4221 | 16 | 02 | 03 | 21 | | 72 | | 6 | 4 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P H | T | A |
| 051 | 50 | 00 | 145 | 00 | 27 | 05 | 68 | 09 | 00 | 4221 | 17 | 02 | 10 | 41 | | | 6 | 7 |
| 052 | 50 | 06 | 144 | 58 | 27 | 05 | 68 | 12 | 00 | 4221 | 16 | 01 | 09 | 31 | 72 | | 6 | 3 |
| 053 | 50 | 03 | 144 | 55 | 27 | 05 | 68 | 15 | 00 | 4221 | 16 | 02 | 11 | 31 | 72 | | 8 | 3 |
| 054 | 49 | 59 | 145 | 02 | 27 | 05 | 68 | 18 | 00 | 4221 | 17 | 02 | 11 | 31 | 02 | | 8 | 3 |
| 055 | 50 | 00 | 145 | 01 | 27 | 05 | 68 | 21 | 00 | 4221 | 17 | 02 | 10 | 41 | 82 | | 8 | 1 |
| 056 | 50 | 02 | 145 | 01 | 28 | 05 | 68 | 00 | 00 | 4221 | 17 | 02 | 11 | 41 | 82 | | 8 | 4 |
| 057 | 50 | 00 | 145 | 01 | 28 | 05 | 68 | 03 | 00 | 4221 | 17 | 02 | 10 | 41 | 72 | | 3 | 5 |
| 058 | 49 | 59 | 145 | 00 | 28 | 05 | 68 | 06 | 00 | 4221 | 18 | 02 | 07 | 42 | 72 | | 3 | 3 |
| 059 | 49 | 58 | 145 | 01 | 28 | 05 | 68 | 09 | 00 | 4221 | 18 | 02 | 05 | 31 | | | 8 | 1 |
| 060 | 50 | 01 | 145 | 03 | 28 | 05 | 68 | 12 | 00 | 4221 | 18 | 02 | 00 | 00 | | | 3 | 3 |
| 061 | 50 | 02 | 145 | 03 | 28 | 05 | 68 | 15 | 00 | 4221 | 18 | 02 | 03 | 00 | 92 | | 3 | 5 |
| 062 | 50 | 02 | 145 | 04 | 28 | 05 | 68 | 18 | 00 | 4221 | 19 | 02 | 06 | 30 | 81 | | 3 | 7 |
| 063 | 49 | 57 | 145 | 07 | 28 | 05 | 68 | 21 | 00 | 4221 | 19 | 02 | 09 | 30 | 01 | | 8 | 5 |
| 064 | 50 | 03 | 145 | 05 | 29 | 05 | 68 | 00 | 00 | 4221 | 19 | 15 | 10 | 30 | 01 | | 6 | 7 |
| 065 | 49 | 59 | 145 | 01 | 29 | 05 | 68 | 03 | 00 | 4221 | 19 | 80 | 10 | 41 | 01 | | 8 | 5 |
| 066 | 50 | 03 | 145 | 00 | 29 | 05 | 68 | 06 | 00 | 4221 | 20 | 25 | 08 | 41 | 81 | | 9 | 7 |
| 067 | 50 | 00 | 145 | 00 | 29 | 05 | 68 | 09 | 00 | 4221 | 20 | 01 | 08 | 31 | 81 | | 6 | 6 |
| 068 | 50 | 00 | 144 | 58 | 29 | 05 | 68 | 12 | 00 | 4221 | 20 | 01 | 11 | 41 | XX | | 6 | 2 |
| 069 | 50 | 01 | 145 | 00 | 29 | 05 | 68 | 15 | 00 | 4221 | 20 | 03 | 10 | 41 | XX | | 9 | 3 |
| 070 | 50 | 01 | 145 | 00 | 29 | 05 | 68 | 18 | 00 | 4221 | 20 | 02 | 08 | 31 | 21 | | 6 | 6 |
| 071 | 50 | 01 | 145 | 06 | 29 | 05 | 68 | 21 | 00 | 4221 | 20 | 15 | 11 | 41 | 21 | | 8 | 7 |
| 072 | 79 | 59 | 145 | 00 | 30 | 05 | 68 | 00 | 00 | 4221 | 20 | 80 | 13 | 51 | 91 | | 8 | 7 |
| 073 | 50 | 02 | 145 | 01 | 30 | 05 | 68 | 03 | 00 | 4221 | 20 | 02 | 10 | 51 | 91 | | 8 | 2 |
| 074 | 50 | 02 | 145 | 03 | 30 | 05 | 68 | 06 | 00 | 4221 | 20 | 03 | 07 | 51 | 81 | | 8 | 7 |
| 075 | 49 | 51 | 145 | 01 | 30 | 05 | 68 | 09 | 00 | 4221 | 19 | 25 | 04 | 41 | XX | | 9 | 2 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 076 | 50 | 01 | 145 | 02 | 30 | 05 | 68 | 12 | 00 | 4221 | 18 | 02 | 09 | 51 | | XX | | 8 | 3 |
| 077 | 50 | 02 | 145 | 03 | 30 | 05 | 68 | 15 | 00 | 4221 | 17 | 03 | 09 | 51 | | 81 | | 9 | 7 |
| 078 | 50 | 01 | 145 | 00 | 30 | 05 | 68 | 18 | 00 | 4221 | 17 | 61 | 10 | 51 | | 81 | | 5 | 8 |
| 079 | 50 | 00 | 145 | 03 | 30 | 05 | 68 | 21 | 00 | 4221 | 15 | 61 | 13 | 41 | | | | 7 | 8 |
| 080 | 50 | 01 | 144 | 59 | 31 | 05 | 68 | 00 | 00 | 4221 | 12 | 61 | 14 | 41 | | 81 | | 5 | 8 |
| 081 | 50 | 00 | 145 | 02 | 31 | 05 | 68 | 03 | 00 | 4221 | 09 | 61 | 24 | 52 | | 81 | | 7 | 8 |
| 082 | 49 | 59 | 144 | 58 | 31 | 05 | 68 | 06 | 00 | 4221 | 07 | 61 | 27 | 64 | | 82 | | 7 | 8 |
| 083 | 50 | 00 | 145 | 04 | 31 | 05 | 68 | 09 | 00 | 4221 | 05 | 61 | 31 | 65 | | 83 | | 7 | 8 |
| 084 | 49 | 57 | 145 | 03 | 01 | 06 | 68 | 15 | 00 | 4221 | 00 | 02 | 30 | 88 | | 26 | | 6 | 4 |
| 085 | 50 | 00 | 145 | 02 | 01 | 06 | 68 | 18 | 00 | 4221 | 01 | 02 | 23 | 75 | | 05 | | 8 | 2 |
| 086 | 49 | 56 | 145 | 04 | 01 | 06 | 68 | 21 | 00 | 4221 | 02 | 02 | 22 | 74 | | 25 | | 6 | 6 |
| 087 | 50 | 00 | 145 | 08 | 02 | 06 | 68 | 00 | 00 | 4221 | 03 | 02 | 21 | 64 | | 04 | | 8 | 7 |
| 088 | 49 | 58 | 145 | 08 | 02 | 06 | 68 | 03 | 00 | 4221 | 03 | 02 | 13 | 53 | | 04 | | 8 | 6 |
| 089 | 50 | 00 | 145 | 03 | 02 | 06 | 68 | 06 | 00 | 4221 | 04 | 25 | 16 | 54 | | 04 | | 9 | 7 |
| 090 | 50 | 00 | 145 | 00 | 02 | 06 | 68 | 09 | 00 | 4221 | 04 | 02 | 22 | 54 | | XX | | 8 | 7 |
| 091 | 50 | 01 | 144 | 59 | 02 | 06 | 68 | 12 | 00 | 4221 | 04 | 25 | 22 | 54 | | XX | | 9 | 7 |
| 092 | 50 | 05 | 144 | 56 | 02 | 06 | 68 | 15 | 00 | 4221 | 05 | 80 | 23 | 43 | | 13 | | 9 | 7 |
| 093 | 50 | 02 | 145 | 00 | 02 | 06 | 68 | 18 | 00 | 4221 | 07 | 15 | 26 | 54 | | 03 | | 9 | 8 |
| 094 | 50 | 04 | 144 | 58 | 02 | 06 | 68 | 21 | 00 | 4221 | 08 | 02 | 26 | 54 | | 03 | | 3 | 7 |
| 095 | 49 | 58 | 145 | 01 | 03 | 06 | 68 | 00 | 30 | 4221 | 09 | 02 | 28 | 54 | | 83 | | 6 | 8 |
| 096 | 50 | 03 | 145 | 00 | 03 | 06 | 68 | 03 | 00 | 4221 | 09 | 02 | 25 | 54 | | 83 | | 3 | 8 |
| 097 | 50 | 00 | 145 | 01 | 03 | 06 | 68 | 06 | 00 | 4221 | 10 | 01 | 22 | 54 | | 83 | | 8 | 8 |
| 098 | 50 | 02 | 145 | 01 | 03 | 06 | 68 | 09 | 00 | 4221 | 11 | 02 | 23 | 54 | | 82 | | 6 | 5 |
| 099 | 50 | 00 | 145 | 03 | 03 | 06 | 68 | 12 | 00 | 4221 | 12 | 02 | 25 | 54 | | 82 | | 6 | 8 |
| 100 | 50 | 02 | 145 | 02 | 03 | 06 | 68 | 15 | 00 | 4221 | 12 | 61 | 16 | 53 | | 82 | | 8 | 8 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 50 | 01 | 145 | 03 | 03 | 06 | 68 | 18 | 00 | 4221 | 14 | 02 | 15 | 53 | | 82 | | 3 | 5 |
| 102 | 50 | 05 | 145 | 00 | 03 | 06 | 68 | 21 | 00 | 4221 | 15 | 02 | 16 | 53 | | 82 | | 3 | 7 |
| 103 | 50 | 04 | 144 | 58 | 04 | 06 | 68 | 00 | 00 | 4221 | 15 | 02 | 13 | 52 | | 82 | | 6 | 8 |
| 104 | 50 | 02 | 145 | 02 | 04 | 06 | 68 | 03 | 00 | 4221 | 15 | 02 | 10 | 52 | | 82 | | 6 | 8 |
| 105 | 50 | 04 | 145 | 00 | 04 | 06 | 68 | 06 | 00 | 4221 | 15 | 20 | 13 | 41 | | 82 | | 7 | 7 |
| 106 | 50 | 05 | 145 | 00 | 04 | 06 | 68 | 09 | 00 | 4221 | 15 | 61 | 11 | 41 | | 82 | | 7 | 8 |
| 107 | 49 | 57 | 145 | 02 | 04 | 06 | 68 | 12 | 00 | 4221 | 14 | 58 | 17 | 42 | | XX | | 7 | 8 |
| 108 | 50 | 03 | 145 | 03 | 04 | 06 | 68 | 15 | 00 | 4221 | 14 | 51 | 13 | 53 | | 72 | | 7 | 8 |
| 109 | 49 | 58 | 145 | 02 | 04 | 06 | 68 | 18 | 00 | 4221 | 14 | 47 | 10 | 52 | | 02 | | X | 9 |
| 110 | 50 | 01 | 145 | 01 | 04 | 06 | 68 | 21 | 00 | 4221 | 15 | 47 | 06 | 51 | | 02 | | X | 9 |
| 111 | 50 | 01 | 144 | 58 | 05 | 06 | 68 | 00 | 00 | 4221 | 16 | 10 | 08 | 61 | | 02 | | 6 | 8 |
| 112 | 50 | 00 | 144 | 57 | 05 | 06 | 68 | 03 | 00 | 4221 | 16 | 10 | 03 | 50 | | 91 | | 7 | 8 |
| 113 | 50 | 02 | 144 | 57 | 05 | 06 | 68 | 06 | 00 | 4221 | 16 | 10 | 03 | 50 | | 91 | | 7 | 8 |
| 114 | 49 | 59 | 145 | 00 | 05 | 06 | 68 | 09 | 00 | 4221 | 17 | 45 | 08 | 50 | | XX | | X | 9 |
| 115 | 49 | 58 | 144 | 57 | 05 | 06 | 68 | 12 | 00 | 4221 | 17 | 45 | 08 | 50 | | XX | | X | 9 |
| 116 | 49 | 59 | 144 | 58 | 05 | 06 | 68 | 15 | 00 | 4221 | 17 | 61 | 07 | 50 | | 01 | | X | 9 |
| 117 | 50 | 00 | 145 | 00 | 05 | 06 | 68 | 18 | 00 | 4221 | 17 | 47 | 07 | 50 | | 01 | | X | 9 |
| 118 | 50 | 01 | 144 | 59 | 05 | 06 | 68 | 21 | 00 | 4221 | 18 | 02 | 07 | 50 | | 01 | | 7 | 8 |
| 119 | 50 | 03 | 144 | 57 | 06 | 06 | 68 | 00 | 00 | 4221 | 18 | 02 | 06 | 50 | | 01 | | 6 | 8 |
| 120 | 50 | 04 | 144 | 57 | 06 | 06 | 68 | 03 | 00 | 4221 | 18 | 02 | 07 | 50 | | 01 | | 6 | 8 |
| 121 | 49 | 59 | 145 | 03 | 06 | 06 | 68 | 06 | 00 | 4221 | 18 | 02 | 07 | 50 | | 02 | | 6 | 7 |
| 122 | 50 | 00 | 144 | 59 | 06 | 06 | 68 | 09 | 00 | 4221 | 19 | 10 | 09 | 50 | | 02 | | 6 | 8 |
| 123 | 49 | 58 | 145 | 03 | 06 | 06 | 68 | 12 | 00 | 4221 | 19 | 02 | 04 | 50 | | 02 | | 6 | 7 |
| 124 | 49 | 57 | 145 | 01 | 06 | 06 | 68 | 15 | 00 | 4221 | 19 | 02 | 08 | 50 | | 02 | | 7 | 8 |
| 125 | 50 | 02 | 145 | 03 | 06 | 06 | 68 | 18 | 00 | 4221 | 19 | 02 | 10 | 51 | | 01 | | 6 | 8 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 126 | 49 | 59 | 145 | 04 | 06 | 06 | 68 | 21 | 00 | 4221 | 19 | 02 | 16 | 51 | | 01 | | 6 | 8 |
| 127 | 49 | 58 | 144 | 59 | 07 | 06 | 68 | 00 | 00 | 4221 | 18 | 61 | 21 | 52 | | 01 | | 7 | 8 |
| 128 | 49 | 58 | 145 | 00 | 07 | 06 | 68 | 03 | 00 | 4221 | 16 | 20 | 22 | 52 | | 01 | | 7 | 8 |
| 129 | 49 | 59 | 145 | 02 | 07 | 06 | 68 | 06 | 00 | 4221 | 14 | 61 | 22 | 53 | | 82 | | 7 | 8 |
| 130 | 50 | 01 | 144 | 59 | 07 | 06 | 68 | 09 | 00 | 4221 | 12 | 61 | 30 | 64 | | XX | | 7 | 8 |
| 131 | 49 | 56 | 144 | 57 | 07 | 06 | 68 | 12 | 00 | 4221 | 11 | 51 | 25 | 75 | | XX | | 7 | 8 |
| 132 | 50 | 01 | 144 | 56 | 07 | 06 | 68 | 15 | 00 | 4221 | 12 | 51 | 17 | 74 | | XX | | 7 | 8 |
| 133 | 49 | 59 | 145 | 01 | 07 | 06 | 68 | 18 | 00 | 4221 | 14 | 10 | 22 | 64 | | 82 | | 7 | 7 |
| 134 | 50 | 01 | 145 | 00 | 07 | 06 | 68 | 21 | 00 | 4221 | 15 | 02 | 22 | 64 | | 82 | | 7 | 8 |
| 135 | 50 | 00 | 145 | 05 | 08 | 06 | 68 | 00 | 00 | 4221 | 16 | 02 | 18 | 64 | | 82 | | 6 | 2 |
| 136 | 50 | 03 | 145 | 05 | 08 | 06 | 68 | 03 | 00 | 4221 | 15 | 02 | 19 | 63 | | 82 | | 6 | 7 |
| 137 | 50 | 00 | 145 | 00 | 08 | 06 | 68 | 06 | 00 | 4221 | 15 | 20 | 22 | 63 | | 82 | | 6 | 7 |
| 138 | 50 | 04 | 144 | 58 | 08 | 06 | 68 | 09 | 00 | 4221 | 15 | 02 | 16 | 52 | | XX | | 6 | 8 |
| 139 | 49 | 58 | 144 | 59 | 08 | 06 | 68 | 12 | 00 | 4221 | 15 | 02 | 10 | 51 | | XX | | 6 | 8 |
| 140 | 49 | 57 | 144 | 58 | 08 | 06 | 68 | 15 | 00 | 4221 | 14 | 02 | 07 | 51 | | 92 | | 7 | 8 |
| 141 | 50 | 00 | 144 | 58 | 08 | 06 | 68 | 18 | 00 | 4221 | 14 | 10 | 10 | 51 | | 82 | | 7 | 8 |
| 142 | 50 | 02 | 144 | 58 | 08 | 06 | 68 | 21 | 00 | 4221 | 13 | 02 | 06 | 51 | | 82 | | 6 | 8 |
| 143 | 50 | 01 | 144 | 53 | 09 | 06 | 68 | 00 | 00 | 4221 | 12 | 61 | 10 | 51 | | 82 | | 6 | 8 |
| 144 | 50 | 02 | 144 | 52 | 09 | 06 | 68 | 03 | 00 | 4221 | 12 | 61 | 07 | 51 | | 82 | | 6 | 8 |
| 145 | 50 | 02 | 144 | 51 | 09 | 06 | 68 | 06 | 00 | 4221 | 11 | 61 | 06 | 50 | | 82 | | 7 | 8 |
| 146 | 49 | 59 | 145 | 02 | 09 | 06 | 68 | 09 | 00 | 4221 | 11 | 01 | 16 | 52 | | 82 | | 6 | 5 |
| 147 | 50 | 00 | 145 | 01 | 09 | 06 | 68 | 12 | 00 | 4221 | 11 | 80 | 19 | 53 | | XX | | 8 | 6 |
| 148 | 50 | 04 | 144 | 56 | 09 | 06 | 68 | 15 | 00 | 4221 | 11 | 25 | 23 | 64 | | 03 | | 8 | 7 |
| 149 | 50 | 01 | 145 | 01 | 09 | 06 | 68 | 18 | 00 | 4221 | 12 | 02 | 27 | 64 | | 03 | | 8 | 4 |
| 150 | 50 | 00 | 144 | 57 | 09 | 06 | 68 | 21 | 00 | 4221 | 13 | 02 | 23 | 64 | | 03 | | 9 | 5 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 151 | 49 | 58 | 145 | 06 | 10 | 06 | 68 | 00 | 00 | 4221 | 13 | 25 | 22 | 64 | | 02 | | 9 | 4 |
| 152 | 50 | 03 | 145 | 01 | 10 | 06 | 68 | 03 | 00 | 4221 | 13 | 15 | 31 | 64 | | 73 | | 8 | 8 |
| 153 | 49 | 56 | 144 | 56 | 10 | 06 | 68 | 09 | 00 | 4221 | 11 | 80 | 26 | 75 | | XX | | 9 | 7 |
| 154 | 50 | 01 | 145 | 06 | 10 | 06 | 68 | 15 | 00 | 4221 | 08 | 02 | 26 | 76 | | 03 | | 6 | 8 |
| 155 | 50 | 04 | 145 | 01 | 10 | 06 | 68 | 18 | 00 | 4221 | 10 | 02 | 30 | 75 | | 83 | | 8 | 7 |
| 156 | 50 | 03 | 144 | 52 | 10 | 06 | 68 | 21 | 00 | 4221 | 09 | 80 | 33 | 76 | | 83 | | 8 | 8 |
| 157 | 50 | 01 | 145 | 00 | 12 | 06 | 68 | 03 | 00 | 4221 | 12 | 02 | 24 | 65 | | 85 | | 8 | 8 |
| 158 | 49 | 58 | 145 | 55 | 12 | 06 | 68 | 06 | 00 | 4221 | 12 | 02 | 25 | 64 | | 85 | | 6 | 8 |
| 159 | 49 | 56 | 144 | 53 | 12 | 06 | 68 | 09 | 00 | 4221 | 14 | 02 | 16 | 64 | | 95 | | 6 | 8 |
| 160 | 49 | 59 | 144 | 58 | 12 | 06 | 68 | 12 | 00 | 4221 | 14 | 02 | 14 | 53 | | 94 | | 8 | 8 |
| 161 | 49 | 58 | 144 | 57 | 12 | 06 | 68 | 15 | 00 | 4221 | 15 | 02 | 14 | 52 | | 74 | | 8 | 7 |
| 162 | 50 | 00 | 144 | 57 | 12 | 06 | 68 | 18 | 00 | 4221 | 15 | 02 | 13 | 62 | | 83 | | 6 | 7 |
| 163 | 49 | 57 | 145 | 00 | 12 | 06 | 68 | 21 | 00 | 4221 | 15 | 02 | 11 | 62 | | 03 | | 6 | 7 |
| 164 | 49 | 57 | 145 | 01 | 13 | 06 | 68 | 00 | 00 | 4221 | 15 | 02 | 13 | 62 | | 82 | | 6 | 7 |
| 165 | 49 | 57 | 145 | 02 | 13 | 06 | 68 | 03 | 00 | 4221 | 14 | 02 | 14 | 62 | | 82 | | 6 | 8 |
| 166 | 50 | 01 | 145 | 00 | 13 | 06 | 68 | 06 | 00 | 4221 | 14 | 02 | 14 | 52 | | 62 | | 6 | 8 |
| 167 | 49 | 59 | 145 | 03 | 13 | 06 | 68 | 09 | 00 | 4221 | 14 | 25 | 18 | 42 | | 62 | | 6 | 8 |
| 168 | 49 | 58 | 145 | 00 | 13 | 06 | 68 | 12 | 00 | 4221 | 13 | 02 | 16 | 42 | | 62 | | 6 | 8 |
| 169 | 49 | 55 | 145 | 07 | 13 | 06 | 68 | 15 | 00 | 4221 | 13 | 02 | 19 | 42 | | 62 | | 6 | 8 |
| 170 | 50 | 01 | 145 | 00 | 13 | 06 | 68 | 18 | 00 | 4221 | 14 | 02 | 17 | 52 | | 62 | | 6 | 7 |
| 171 | 50 | 02 | 145 | 04 | 13 | 06 | 68 | 21 | 00 | 4221 | 14 | 02 | 17 | 52 | | 62 | | 6 | 7 |
| 172 | 49 | 59 | 144 | 56 | 14 | 06 | 68 | 00 | 00 | 4221 | 14 | 02 | 16 | 52 | | 62 | | 6 | 8 |
| 173 | 50 | 01 | 144 | 58 | 14 | 06 | 68 | 03 | 00 | 4221 | 13 | 02 | 15 | 52 | | 62 | | 7 | 8 |
| 174 | 50 | 02 | 144 | 59 | 14 | 06 | 68 | 06 | 00 | 4221 | 13 | 58 | 21 | 83 | | 62 | | 7 | 8 |
| 175 | 50 | 00 | 145 | 02 | 14 | 06 | 68 | 09 | 00 | 4221 | 13 | 10 | 20 | 83 | | 62 | | 7 | 8 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 176 | 49 | 58 | 145 | 05 | 14 | 06 | 68 | 12 | 00 | 4221 | 14 | 02 | 17 | 73 | | XX | | 6 | 3 |
| 177 | 50 | 05 | 145 | 08 | 14 | 06 | 68 | 15 | 00 | 4221 | 13 | 02 | 19 | 72 | | 63 | | 7 | 8 |
| 178 | 50 | 01 | 144 | 58 | 14 | 06 | 68 | 18 | 00 | 4221 | 13 | 47 | 27 | 64 | | 83 | | X | 9 |
| 179 | 50 | 05 | 144 | 55 | 14 | 06 | 68 | 21 | 00 | 4221 | 12 | 61 | 26 | 64 | | 83 | | 7 | 8 |
| 180 | 49 | 57 | 144 | 51 | 15 | 06 | 68 | 00 | 00 | 4221 | 10 | 58 | 28 | 64 | | 83 | | 7 | 8 |
| 181 | 50 | 00 | 144 | 53 | 15 | 06 | 68 | 03 | 00 | 4221 | 09 | 10 | 19 | 63 | | 84 | | 6 | 7 |
| 182 | 50 | 00 | 144 | 58 | 15 | 06 | 68 | 06 | 00 | 4221 | 10 | 10 | 19 | 63 | | 84 | | 3 | 3 |
| 183 | 50 | 02 | 144 | 59 | 15 | 06 | 68 | 09 | 00 | 4221 | 11 | 10 | 19 | 63 | | 84 | | 8 | 7 |
| 184 | 49 | 57 | 145 | 03 | 15 | 06 | 68 | 12 | 00 | 4221 | 11 | 25 | 23 | 63 | | 85 | | 8 | 7 |
| 185 | 50 | 02 | 145 | 05 | 15 | 06 | 68 | 15 | 00 | 4221 | 11 | 10 | 17 | 52 | | 84 | | 7 | 7 |
| 186 | 50 | 01 | 145 | 00 | 15 | 06 | 68 | 18 | 00 | 4221 | 11 | 10 | 19 | 63 | | 83 | | 6 | 8 |
| 187 | 50 | 05 | 145 | 00 | 15 | 06 | 68 | 21 | 00 | 4221 | 11 | 02 | 19 | 63 | | 92 | | 3 | 4 |
| 188 | 49 | 55 | 145 | 02 | 16 | 06 | 68 | 00 | 00 | 4221 | 11 | 02 | 18 | 63 | | 92 | | 6 | 8 |
| 189 | 49 | 56 | 145 | 00 | 16 | 06 | 68 | 03 | 00 | 4221 | 10 | 02 | 14 | 63 | | 93 | | 3 | 6 |
| 190 | 49 | 57 | 144 | 59 | 16 | 06 | 68 | 06 | 00 | 4221 | 10 | 25 | 16 | 52 | | 93 | | 6 | 7 |
| 191 | 50 | 00 | 144 | 58 | 16 | 06 | 68 | 09 | 00 | 4221 | 10 | 02 | 14 | 52 | | 92 | | 6 | 3 |
| 192 | 49 | 57 | 145 | 01 | 16 | 06 | 68 | 12 | 00 | 4221 | 10 | 03 | 18 | 52 | | 92 | | 6 | 7 |
| 193 | 49 | 59 | 145 | 02 | 16 | 06 | 68 | 15 | 00 | 4221 | 11 | 02 | 17 | 62 | | 92 | | 8 | 7 |
| 194 | 50 | 00 | 145 | 02 | 16 | 06 | 68 | 18 | 00 | 4221 | 12 | 02 | 18 | 62 | | 92 | | 8 | 7 |
| 195 | 50 | 01 | 145 | 02 | 16 | 06 | 68 | 21 | 00 | 4221 | 12 | 02 | 16 | 62 | | 92 | | 3 | 3 |
| 196 | 49 | 55 | 145 | 03 | 17 | 06 | 68 | 00 | 00 | 4221 | 13 | 02 | 18 | 63 | | 92 | | 8 | 1 |
| 197 | 49 | 58 | 145 | 02 | 17 | 06 | 68 | 03 | 00 | 4221 | 13 | 02 | 18 | 63 | | 92 | | 3 | 4 |
| 198 | 50 | 00 | 145 | 00 | 17 | 06 | 68 | 06 | 00 | 4221 | 13 | 02 | 18 | 63 | | 92 | | 6 | 8 |
| 199 | 50 | 03 | 145 | 01 | 17 | 06 | 68 | 09 | 00 | 4221 | 13 | 02 | 18 | 63 | | 92 | | 6 | 8 |
| 200 | 49 | 55 | 145 | 00 | 17 | 06 | 68 | 12 | 00 | 4221 | 12 | 02 | 16 | 63 | | 92 | | 6 | 8 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 49 | 58 | 145 | 03 | 17 | 06 | 68 | 15 | 00 | 4221 | 10 | 02 | 11 | 63 | | 92 | | 8 | 8 |
| 202 | 49 | 59 | 145 | 02 | 17 | 06 | 68 | 18 | 00 | 4221 | 09 | 02 | 08 | 62 | | 93 | | 3 | 7 |
| 203 | 50 | 00 | 145 | 02 | 17 | 06 | 68 | 21 | 00 | 4221 | 07 | 02 | 08 | 51 | | 92 | | 6 | 8 |
| 204 | 49 | 59 | 145 | 00 | 18 | 06 | 68 | 00 | 00 | 4221 | 06 | 25 | 04 | 50 | | 02 | | 6 | 8 |
| 205 | 50 | 00 | 144 | 58 | 18 | 06 | 68 | 03 | 00 | 4221 | 05 | 15 | 18 | 51 | | 92 | | 6 | 7 |
| 206 | 49 | 59 | 145 | 04 | 18 | 06 | 68 | 06 | 00 | 4221 | 05 | 01 | 23 | 61 | | 82 | | 8 | 4 |
| 207 | 50 | 03 | 144 | 59 | 18 | 06 | 68 | 09 | 00 | 4221 | 05 | 02 | 26 | 52 | | 73 | | 8 | 7 |
| 208 | 49 | 59 | 145 | 07 | 18 | 06 | 68 | 12 | 00 | 4221 | 05 | 02 | 29 | 42 | | 73 | | 8 | 7 |
| 209 | 50 | 02 | 145 | 01 | 18 | 06 | 68 | 15 | 00 | 4221 | 05 | 80 | 33 | 53 | | 76 | | 9 | 7 |
| 210 | 49 | 59 | 145 | 04 | 18 | 06 | 68 | 18 | 00 | 4221 | 06 | 02 | 32 | 65 | | 73 | | 8 | 7 |
| 211 | 50 | 00 | 145 | 00 | 18 | 06 | 68 | 21 | 00 | 4221 | 07 | 15 | 35 | 76 | | 74 | | 8 | 7 |
| 212 | 50 | 05 | 145 | 07 | 19 | 06 | 68 | 03 | 00 | 4221 | 12 | 02 | 27 | 76 | | 94 | | 8 | 8 |
| 213 | 49 | 59 | 145 | 05 | 19 | 06 | 68 | 06 | 00 | 4221 | 14 | 80 | 28 | 76 | | 94 | | 8 | 8 |
| 214 | 50 | 01 | 145 | 00 | 19 | 06 | 68 | 09 | 00 | 4221 | 16 | 80 | 23 | 75 | | 95 | | 6 | 8 |
| 215 | 49 | 57 | 145 | 06 | 19 | 06 | 68 | 12 | 00 | 4221 | 17 | 25 | 24 | 75 | | 95 | | 6 | 8 |
| 216 | 49 | 59 | 145 | 02 | 19 | 06 | 68 | 15 | 00 | 4221 | 17 | 80 | 23 | 75 | | 96 | | 6 | 8 |
| 217 | 50 | 02 | 144 | 59 | 19 | 06 | 68 | 18 | 00 | 4221 | 18 | 02 | 18 | 73 | | 84 | | 6 | 8 |
| 218 | 49 | 59 | 144 | 57 | 19 | 06 | 68 | 21 | 00 | 4221 | 18 | 02 | 20 | 73 | | 84 | | 6 | 7 |
| 219 | 49 | 58 | 145 | 08 | 20 | 06 | 68 | 03 | 00 | 4221 | 18 | 02 | 13 | 52 | | 83 | | 6 | 8 |
| 220 | 50 | 00 | 145 | 05 | 20 | 06 | 68 | 06 | 00 | 4221 | 19 | 02 | 08 | 62 | | 83 | | 6 | 8 |
| 221 | 50 | 00 | 145 | 04 | 20 | 06 | 68 | 09 | 00 | 4221 | 18 | 02 | 03 | 61 | | 83 | | 6 | 8 |
| 222 | 49 | 59 | 144 | 58 | 20 | 06 | 68 | 12 | 00 | 4221 | 17 | 02 | 07 | 51 | | 73 | | 6 | 8 |
| 223 | 49 | 58 | 144 | 57 | 20 | 06 | 68 | 15 | 00 | 4221 | 16 | 02 | 12 | 52 | | 73 | | 6 | 8 |
| 224 | 50 | 01 | 144 | 58 | 20 | 06 | 68 | 18 | 00 | 4221 | 16 | 02 | 16 | 51 | | 72 | | 6 | 8 |
| 225 | 49 | 59 | 145 | 01 | 20 | 06 | 68 | 21 | 00 | 4221 | 15 | 02 | 14 | 51 | | 82 | | 6 | 7 |

TABLE 1

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 226 | 50 | 04 | 144 | 58 | 21 | 06 | 68 | 00 | 00 | 4221 | 15 | 02 | 15 | 52 | | 82 | | 3 | 7 |
| 227 | 50 | 02 | 145 | 02 | 21 | 06 | 68 | 03 | 00 | 4221 | 15 | 01 | 17 | 52 | | 82 | | 3 | 4 |
| 228 | 50 | 04 | 145 | 05 | 21 | 06 | 68 | 06 | 00 | 4221 | 15 | 03 | 19 | 52 | | 82 | | 8 | 7 |
| 229 | 50 | 01 | 144 | 59 | 21 | 06 | 68 | 09 | 00 | 4221 | 16 | 02 | 18 | 52 | | 82 | | 8 | 8 |
| 230 | 50 | 01 | 145 | 01 | 21 | 06 | 68 | 12 | 00 | 4221 | 16 | 01 | 16 | 52 | | 93 | | 6 | 2 |
| 231 | 50 | 01 | 145 | 06 | 21 | 06 | 68 | 15 | 00 | 4221 | 18 | 03 | 16 | 52 | | 85 | | 8 | 7 |
| 232 | 50 | 02 | 144 | 58 | 21 | 06 | 68 | 18 | 00 | 4221 | 19 | 02 | 16 | 62 | | 84 | | 8 | 2 |
| 233 | 50 | 03 | 145 | 02 | 21 | 06 | 68 | 21 | 00 | 4221 | 20 | 02 | 14 | 62 | | 84 | | 6 | 3 |
| 234 | 49 | 58 | 145 | 03 | 22 | 06 | 68 | 00 | 00 | 4221 | 22 | 02 | 08 | 62 | | 94 | | 6 | 6 |
| 235 | 50 | 00 | 145 | 07 | 22 | 06 | 68 | 03 | 00 | 4221 | 22 | 02 | 07 | 51 | | 94 | | 6 | 5 |
| 236 | 50 | 01 | 144 | 59 | 22 | 06 | 68 | 06 | 00 | 4221 | 23 | 02 | 09 | 51 | | 94 | | 6 | 7 |
| 237 | 50 | 00 | 144 | 56 | 22 | 06 | 68 | 09 | 00 | 4221 | 24 | 01 | 10 | 51 | | 94 | | 6 | 2 |
| 238 | 49 | 57 | 144 | 53 | 22 | 06 | 68 | 12 | 00 | 4221 | 23 | 02 | 11 | 51 | | 94 | | 6 | 6 |
| 239 | 49 | 58 | 145 | 00 | 22 | 06 | 68 | 15 | 00 | 4221 | 23 | 03 | 15 | 51 | | 93 | | 6 | 7 |
| 240 | 49 | 59 | 145 | 03 | 22 | 06 | 68 | 18 | 00 | 4221 | 22 | 02 | 23 | 52 | | 93 | | 6 | 8 |
| 241 | 50 | 00 | 145 | 06 | 22 | 06 | 68 | 21 | 00 | 4221 | 21 | 02 | 25 | 52 | | 93 | | 6 | 8 |
| 242 | 49 | 59 | 145 | 05 | 23 | 06 | 68 | 00 | 00 | 4221 | 20 | 02 | 25 | 64 | | 82 | | 8 | 4 |
| 243 | 50 | 06 | 145 | 06 | 23 | 06 | 68 | 03 | 00 | 4221 | 17 | 02 | 29 | 64 | | 93 | | 7 | 8 |
| 244 | 50 | 07 | 145 | 12 | 23 | 06 | 68 | 06 | 00 | 4221 | 14 | 61 | 29 | 64 | | 73 | | 7 | 8 |
| 245 | 49 | 55 | 144 | 59 | 23 | 06 | 68 | 12 | 00 | 4221 | 09 | 61 | 26 | 65 | | 73 | | 7 | 8 |
| 246 | 49 | 58 | 145 | 04 | 23 | 06 | 68 | 15 | 00 | 4221 | 08 | 45 | 16 | 64 | | 85 | | X | 9 |
| 247 | 50 | 00 | 145 | 00 | 23 | 06 | 68 | 18 | 00 | 4221 | 07 | 51 | 14 | 63 | | 84 | | 7 | 8 |
| 248 | 50 | 01 | 145 | 00 | 23 | 06 | 68 | 21 | 00 | 4221 | 08 | 02 | 20 | 63 | | 94 | | 7 | 8 |
| 249 | 49 | 57 | 145 | 07 | 24 | 06 | 68 | 00 | 00 | 4221 | 10 | 02 | 16 | 63 | | 84 | | 8 | 1 |
| 250 | 50 | 01 | 145 | 08 | 24 | 06 | 68 | 03 | 00 | 4221 | 10 | 02 | 17 | 63 | | 84 | | 0 | 4 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 251 | 50 | 03 | 145 | 08 | 24 | 06 | 68 | 06 | 00 | 4221 | 09 | 03 | 18 | 52 | | 84 | | 0 | 6 |
| 252 | 49 | 59 | 144 | 58 | 24 | 06 | 68 | 09 | 00 | 4221 | 09 | 01 | 21 | 52 | | 74 | | 3 | 2 |
| 253 | 49 | 59 | 144 | 57 | 24 | 06 | 68 | 12 | 00 | 4221 | 09 | 03 | 21 | 52 | | 74 | | 6 | 8 |
| 254 | 50 | 00 | 144 | 59 | 24 | 06 | 68 | 15 | 00 | 4221 | 09 | 02 | 17 | 62 | | 74 | | 6 | 7 |
| 255 | 50 | 01 | 145 | 00 | 24 | 06 | 68 | 18 | 00 | 4221 | 08 | 02 | 16 | 63 | | 95 | | 6 | 6 |
| 256 | 50 | 03 | 144 | 59 | 24 | 06 | 68 | 21 | 00 | 4221 | 08 | 02 | 18 | 63 | | 95 | | 8 | 2 |
| 257 | 50 | 03 | 145 | 00 | 25 | 06 | 68 | 00 | 00 | 4221 | 07 | 02 | 16 | 63 | | 05 | | 3 | 4 |
| 258 | 50 | 02 | 145 | 04 | 25 | 06 | 68 | 03 | 00 | 4221 | 06 | 02 | 12 | 63 | | 95 | | 3 | 2 |
| 259 | 49 | 59 | 145 | 15 | 25 | 06 | 68 | 06 | 00 | 4221 | 06 | 02 | 15 | 62 | | 05 | | 6 | 4 |
| 260 | 50 | 01 | 145 | 01 | 25 | 06 | 68 | 09 | 00 | 4221 | 05 | 02 | 20 | 63 | | 05 | | 6 | 6 |
| 261 | 49 | 59 | 144 | 57 | 25 | 06 | 68 | 12 | 00 | 4221 | 05 | 02 | 19 | 63 | | 04 | | 6 | 6 |
| 262 | 50 | 01 | 144 | 55 | 25 | 06 | 68 | 15 | 00 | 4221 | 05 | 02 | 20 | 53 | | 05 | | 6 | 7 |
| 263 | 49 | 59 | 145 | 00 | 25 | 06 | 68 | 18 | 00 | 4221 | 05 | 25 | 17 | 63 | | 05 | | 4 | 8 |
| 264 | 49 | 59 | 145 | 00 | 25 | 06 | 68 | 21 | 00 | 4221 | | | | | | | | | |
| 265 | 49 | 54 | 145 | 02 | 26 | 06 | 68 | 00 | 00 | 4221 | 06 | 02 | 19 | 63 | | 04 | | 8 | 8 |
| 266 | 50 | 00 | 145 | 01 | 26 | 06 | 68 | 03 | 00 | 4221 | 07 | 25 | 19 | 63 | | 04 | | 8 | 8 |
| 267 | 50 | 02 | 145 | 00 | 26 | 06 | 68 | 06 | 00 | 4221 | 09 | 03 | 20 | 63 | | 93 | | 8 | 7 |
| 268 | 50 | 02 | 144 | 58 | 26 | 06 | 68 | 09 | 00 | 4221 | 10 | 02 | 18 | 63 | | 93 | | 8 | 8 |
| 269 | 49 | 56 | 144 | 59 | 26 | 06 | 68 | 12 | 00 | 4221 | 11 | 02 | 28 | 84 | | 93 | | 8 | 7 |
| 270 | 50 | 04 | 144 | 57 | 26 | 06 | 68 | 15 | 00 | 4221 | 13 | 02 | 30 | 74 | | 83 | | 8 | 7 |
| 271 | 50 | 01 | 145 | 00 | 26 | 06 | 68 | 18 | 00 | 4221 | 13 | 15 | 30 | 64 | | 93 | | 6 | 8 |
| 272 | 50 | 01 | 144 | 54 | 26 | 06 | 68 | 21 | 00 | 4221 | 14 | 02 | 28 | 74 | | 93 | | 8 | 7 |
| 273 | 49 | 55 | 145 | 04 | 27 | 06 | 68 | 00 | 00 | 4221 | 16 | 02 | 30 | 65 | | 93 | | 6 | 6 |
| 274 | 49 | 57 | 144 | 58 | 27 | 06 | 68 | 03 | 00 | 4221 | 16 | 02 | 28 | 76 | | 94 | | 8 | 7 |
| 275 | 50 | 02 | 145 | 10 | 27 | 06 | 68 | 09 | 00 | 4221 | 21 | 02 | 30 | 65 | | 94 | | 7 | 8 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 276 | 49 | 59 | 145 | 00 | 27 | 06 | 68 | 15 | 00 | 4221 | 25 | 02 | 27 | 75 | | 97 | | 7 | 8 |
| 277 | 50 | 00 | 145 | 04 | 27 | 06 | 68 | 18 | 00 | 4221 | 27 | 20 | 26 | 65 | | 95 | | 7 | 8 |
| 278 | 50 | 03 | 145 | 09 | 27 | 06 | 68 | 21 | 00 | 4221 | 28 | 20 | 24 | 64 | | 95 | | 6 | 7 |
| 279 | 50 | 06 | 145 | 05 | 28 | 06 | 68 | 00 | 00 | 4221 | 29 | 02 | 24 | 65 | | 95 | | 6 | 7 |
| 280 | 49 | 59 | 145 | 03 | 28 | 06 | 68 | 03 | 00 | 4221 | 30 | 02 | 20 | 64 | | 95 | | 6 | 7 |
| 281 | 49 | 58 | 145 | 00 | 28 | 06 | 68 | 06 | 00 | 4221 | 31 | 02 | 18 | 62 | | 94 | | 6 | 8 |
| 282 | 50 | 00 | 144 | 55 | 28 | 06 | 68 | 09 | 00 | 4221 | 32 | 25 | 16 | 62 | | 94 | | 6 | 8 |
| 283 | 50 | 00 | 145 | 04 | 28 | 06 | 68 | 12 | 00 | 4221 | 32 | 02 | 13 | 52 | | 93 | | 6 | 8 |
| 284 | 50 | 01 | 145 | 02 | 28 | 06 | 68 | 15 | 00 | 4221 | 33 | 02 | 07 | 51 | | 83 | | 6 | 8 |
| 285 | 50 | 00 | 145 | 01 | 28 | 06 | 68 | 18 | 00 | 4221 | 33 | 15 | 04 | 50 | | 82 | | 6 | 8 |
| 286 | 50 | 02 | 145 | 00 | 28 | 06 | 68 | 21 | 00 | 4221 | 32 | 02 | 10 | 51 | | 82 | | 6 | 8 |
| 287 | 49 | 57 | 144 | 56 | 29 | 06 | 68 | 00 | 00 | 4221 | 31 | 02 | 14 | 51 | | 82 | | 4 | 8 |
| 288 | 49 | 56 | 144 | 55 | 29 | 06 | 68 | 03 | 00 | 4221 | 30 | 61 | 14 | 51 | | 22 | | 7 | 8 |
| 289 | 49 | 59 | 144 | 54 | 29 | 06 | 68 | 06 | 00 | 4221 | 28 | 61 | 12 | 51 | | 02 | | 3 | 8 |
| 290 | 50 | 00 | 144 | 55 | 29 | 06 | 68 | 09 | 00 | 4221 | 26 | 02 | 16 | 51 | | 02 | | 6 | 8 |
| 291 | 49 | 59 | 144 | 58 | 29 | 06 | 68 | 12 | 00 | 4221 | 25 | 61 | 19 | 52 | | 02 | | 7 | 8 |
| 292 | 50 | 02 | 145 | 02 | 29 | 06 | 68 | 15 | 00 | 4221 | 22 | 02 | 24 | 73 | | 02 | | 6 | 8 |
| 293 | 50 | 03 | 145 | 05 | 29 | 06 | 68 | 18 | 00 | 4221 | 21 | 61 | 30 | 55 | | 94 | | 7 | 8 |
| 294 | 50 | 07 | 145 | 10 | 29 | 06 | 68 | 21 | 00 | 4221 | 19 | 51 | 30 | 66 | | 94 | | 7 | 8 |
| 295 | 50 | 04 | 144 | 57 | 30 | 06 | 68 | 00 | 00 | 4221 | 17 | 51 | 30 | 65 | | 86 | | 7 | 8 |
| 296 | 50 | 06 | 145 | 06 | 30 | 06 | 68 | 03 | 00 | 4221 | 14 | 51 | 23 | 64 | | 86 | | 7 | 8 |
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| 298 | 50 | 03 | 145 | 01 | 30 | 06 | 68 | 09 | 00 | 4221 | 14 | 51 | 07 | 52 | | 84 | | X | 9 |
| 299 | 50 | 00 | 145 | 04 | 30 | 06 | 68 | 12 | 00 | 4221 | 13 | 43 | 02 | 51 | | 73 | | X | 9 |
| 300 | 50 | 07 | 145 | 08 | 30 | 06 | 68 | 15 | 00 | 4221 | 13 | 10 | 09 | 51 | | 74 | | 7 | 7 |

TABLE 1

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 301 | 50 | 00 | 145 | 01 | 30 | 06 | 68 | 18 | 00 | 4221 | 14 | 10 | 13 | 52 | | 94 | | 6 | 7 |
| 302 | 49 | 38 | 139 | 40 | 01 | 07 | 68 | 15 | 00 | 3840 | 18 | 01 | 31 | 35 | | 44 | | 5 | 6 |
| 303 | 49 | 40 | 138 | 40 | 01 | 07 | 68 | 18 | 00 | 3890 | 20 | 01 | 25 | 35 | | 33 | | 3 | 5 |
| 304 | 49 | 30 | 137 | 40 | 01 | 07 | 68 | 22 | 54 | 3850 | 22 | 02 | 19 | 22 | | 33 | | 7 | 3 |
| 305 | 49 | 26 | 136 | 40 | 02 | 07 | 68 | 02 | 00 | 3767 | 22 | 01 | 17 | 22 | | 35 | | 0 | 2 |
| 306 | 49 | 23 | 135 | 40 | 02 | 07 | 68 | 07 | 00 | 3200 | 22 | 01 | 22 | 25 | | 24 | | 3 | 7 |
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| 309 | 49 | 05 | 131 | 40 | 02 | 07 | 68 | 19 | 00 | 2875 | 19 | 01 | 04 | 23 | | 23 | | 3 | 3 |
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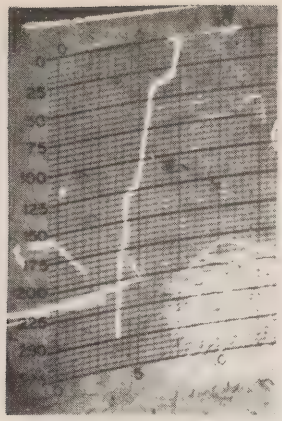
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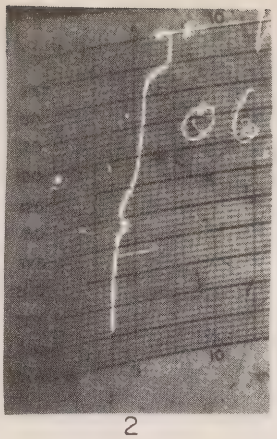
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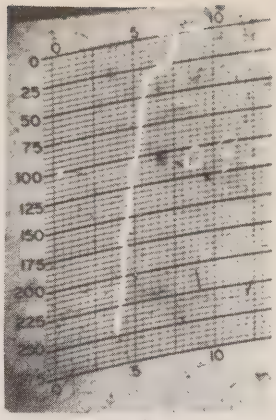
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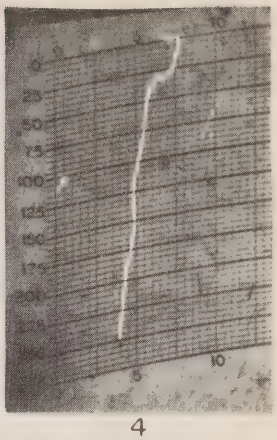
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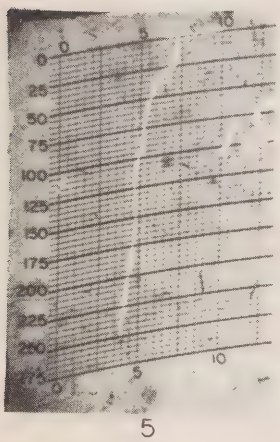
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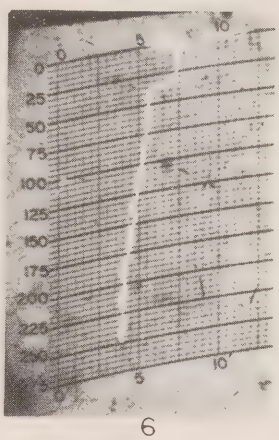
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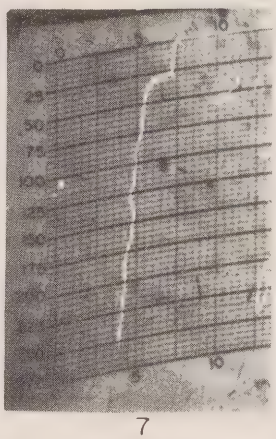
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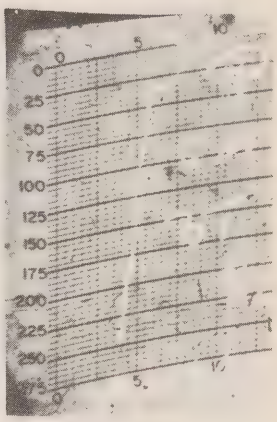
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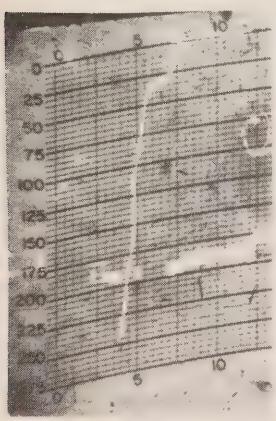
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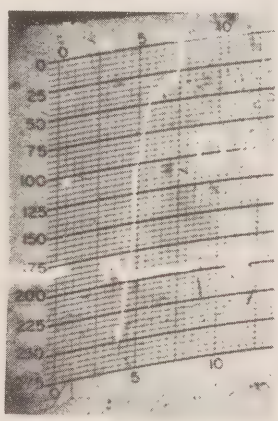
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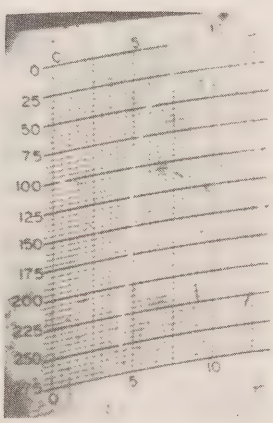
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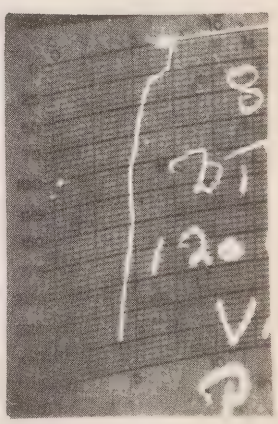
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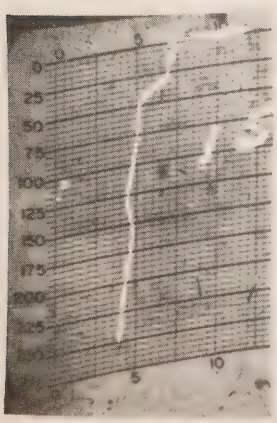
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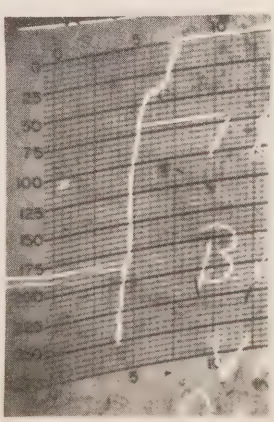
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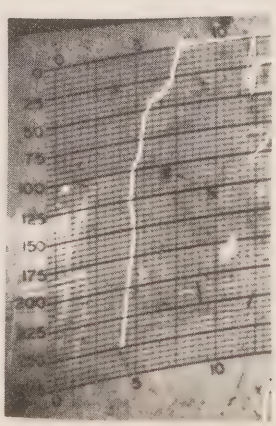
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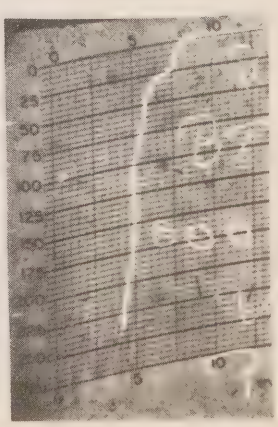
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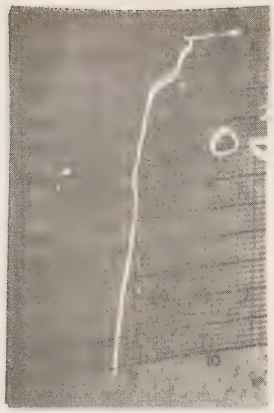

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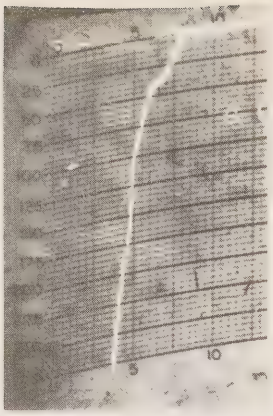

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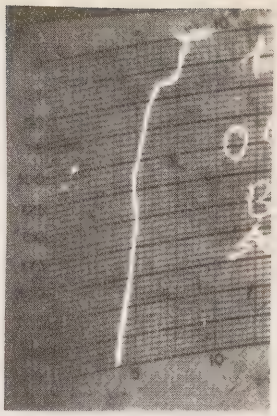

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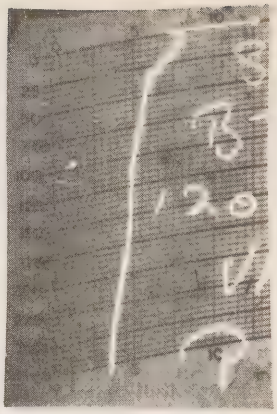

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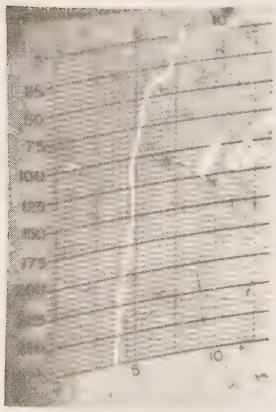

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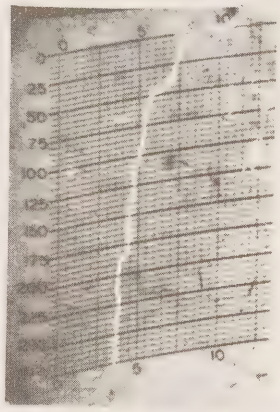

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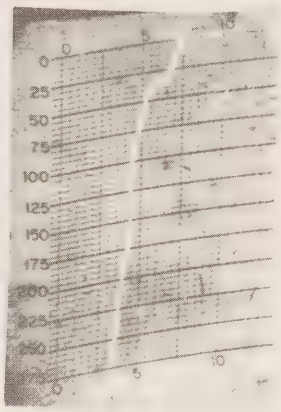

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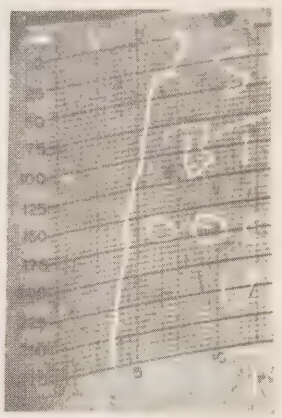

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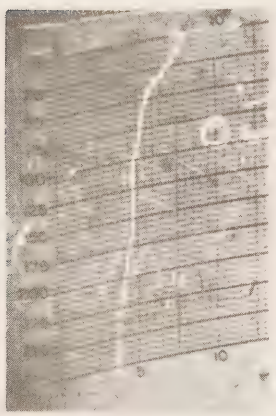

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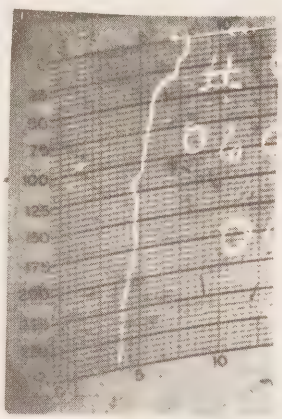

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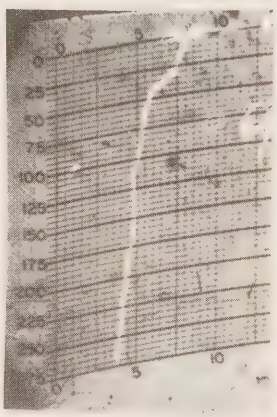

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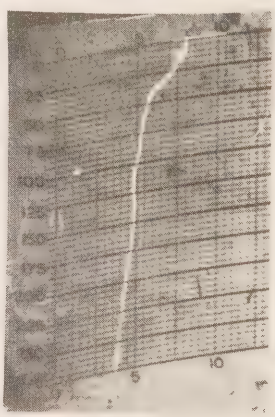

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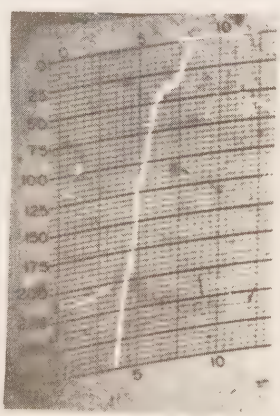

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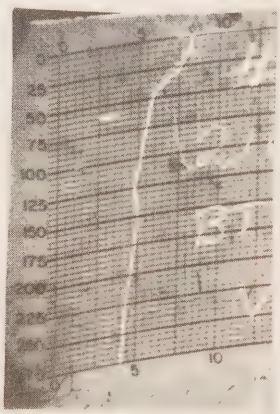

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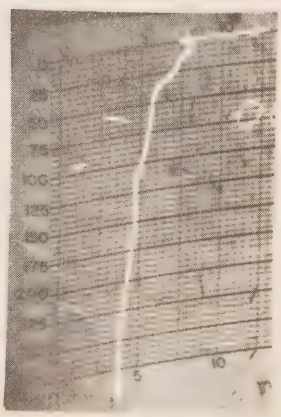

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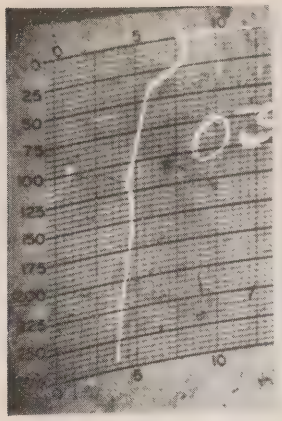

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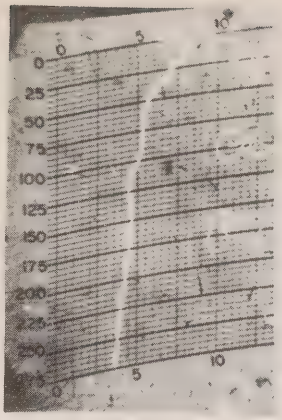

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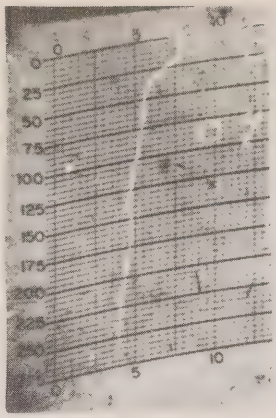

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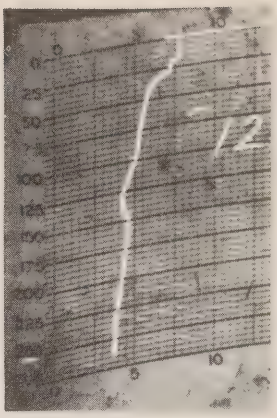

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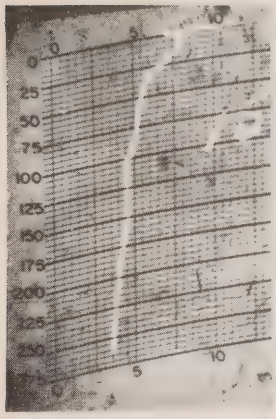

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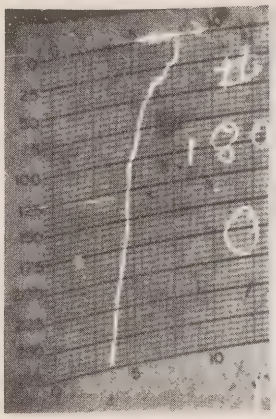

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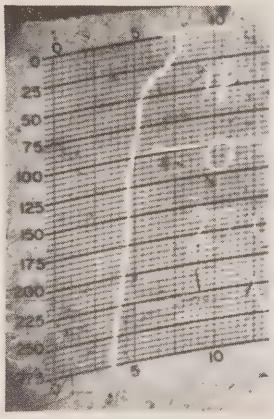

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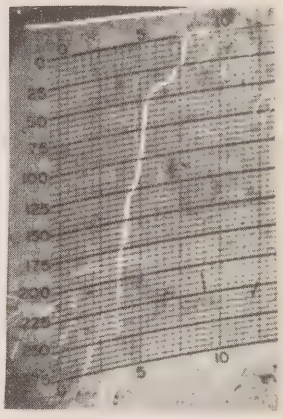

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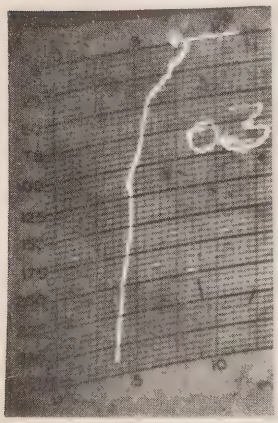

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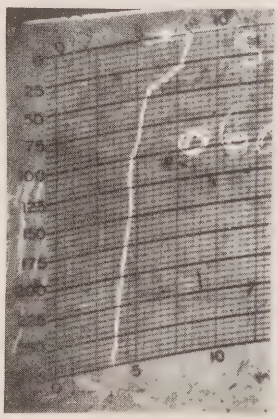

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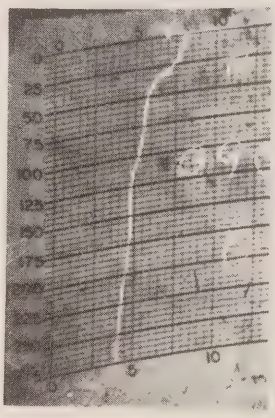

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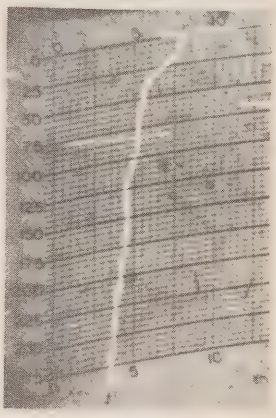

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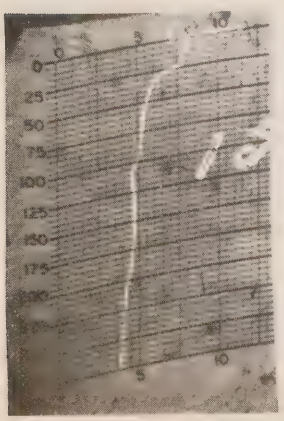

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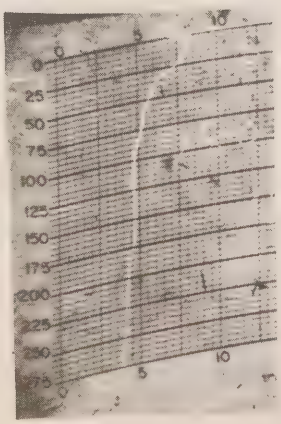

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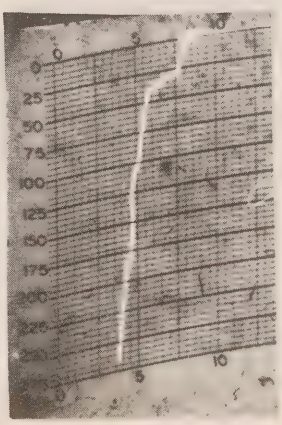

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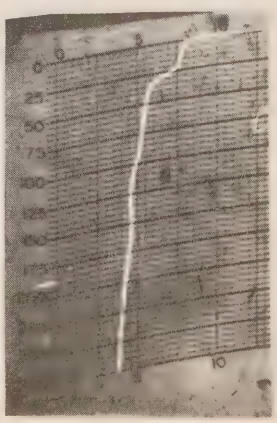

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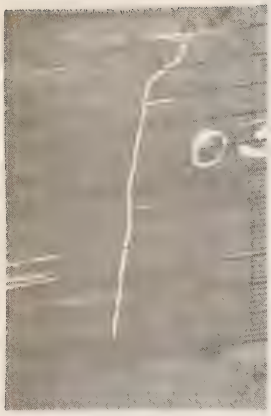

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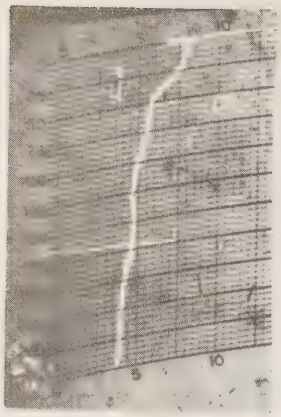

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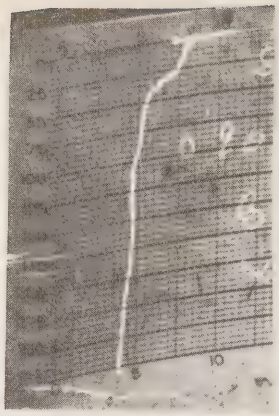

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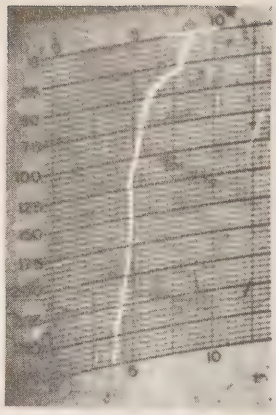

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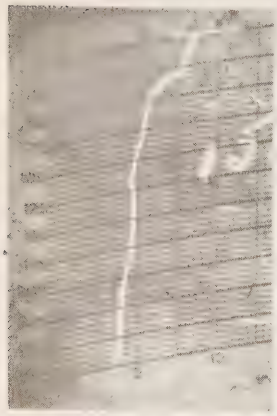

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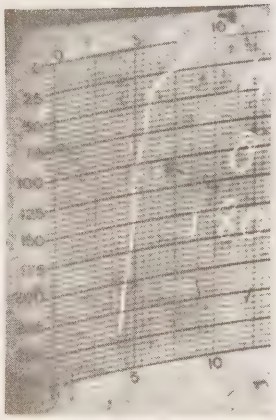

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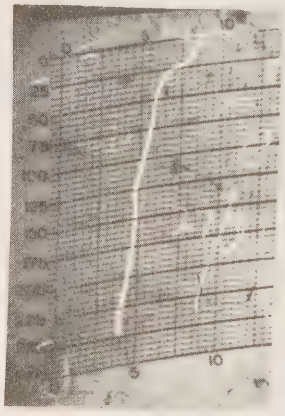

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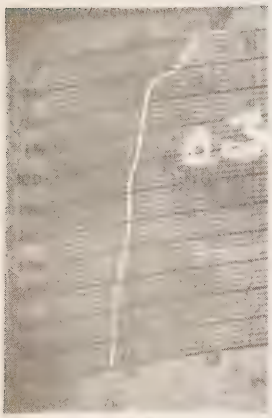

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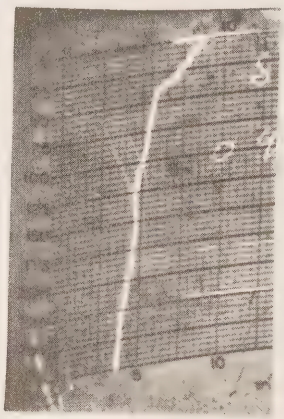

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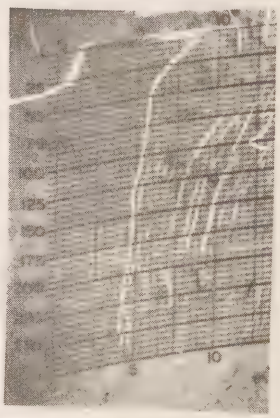

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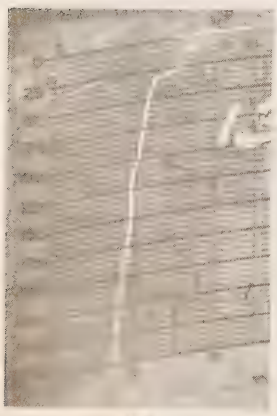

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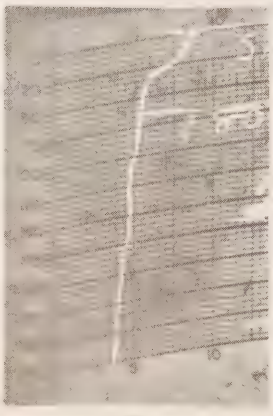

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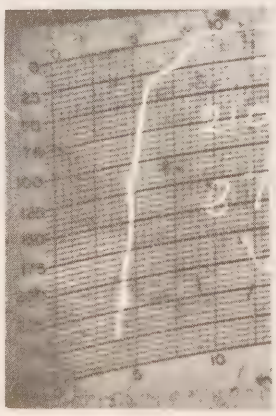

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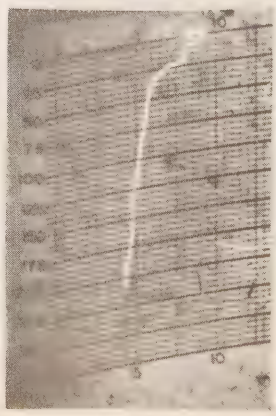

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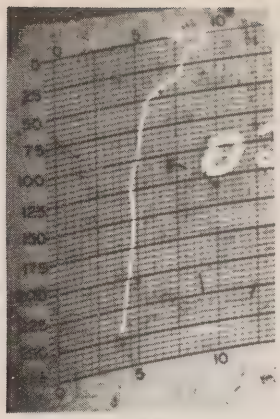

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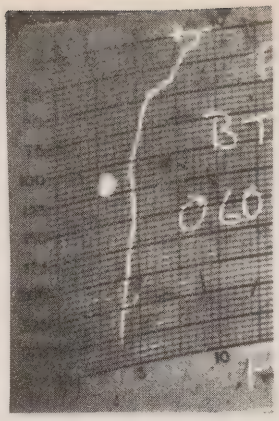

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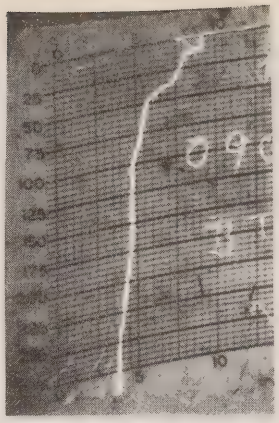

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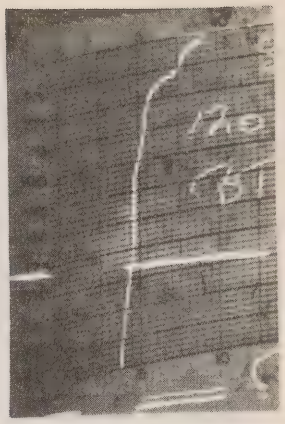

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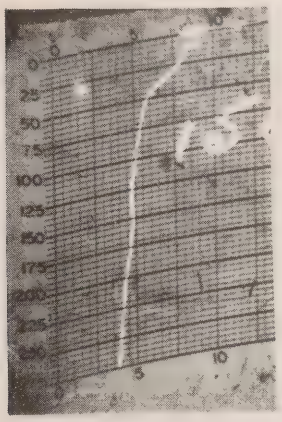

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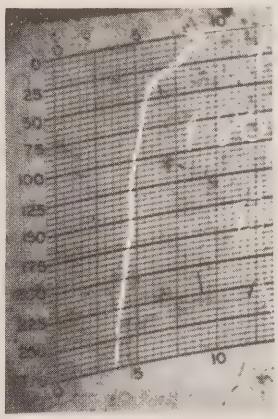

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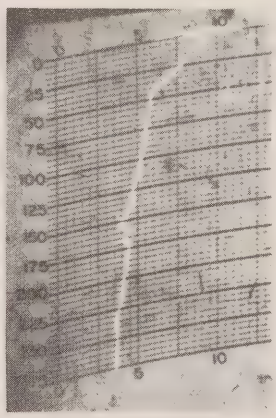

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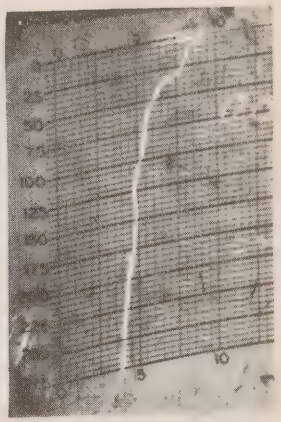

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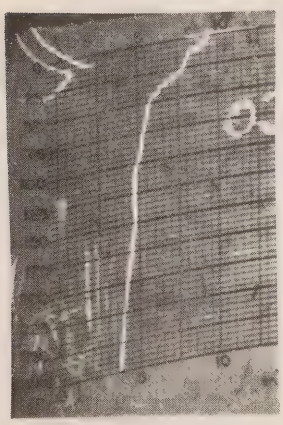

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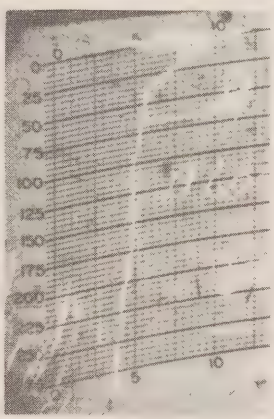

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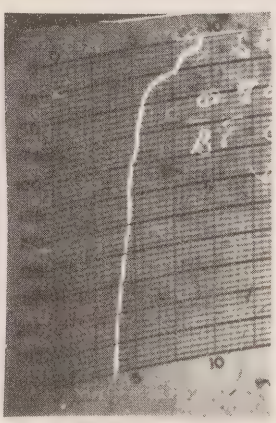

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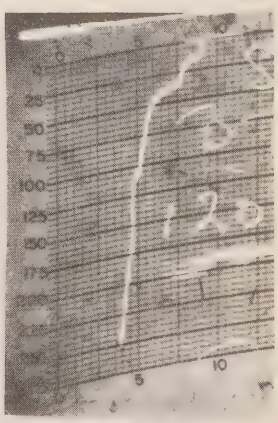

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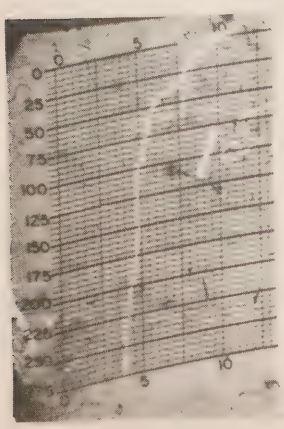

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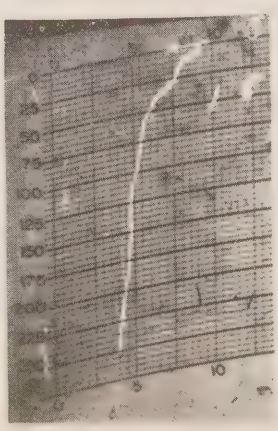

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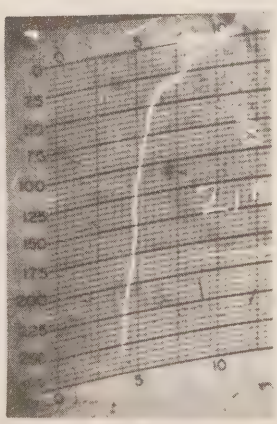

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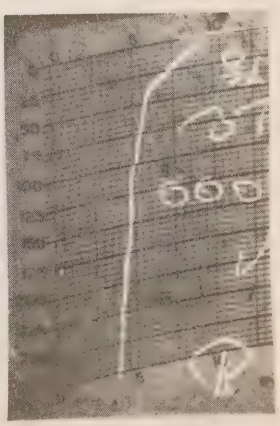

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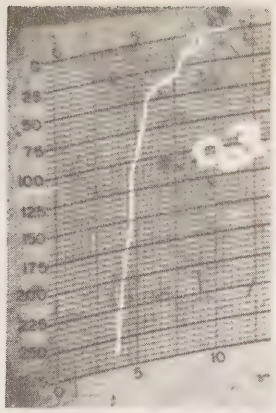
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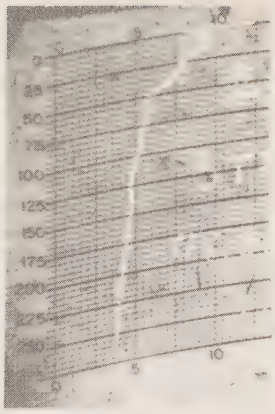
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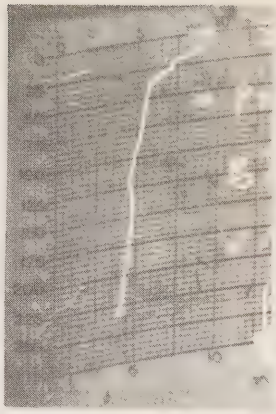
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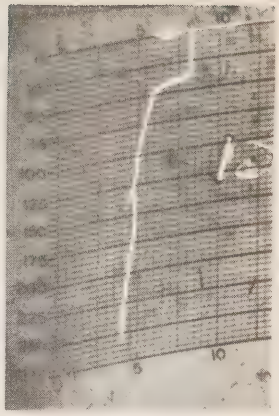
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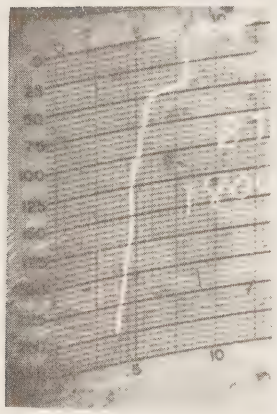
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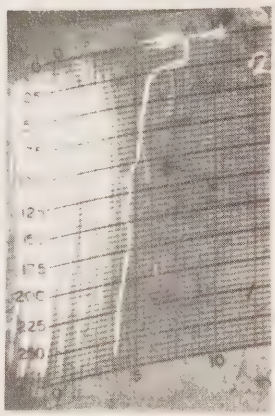
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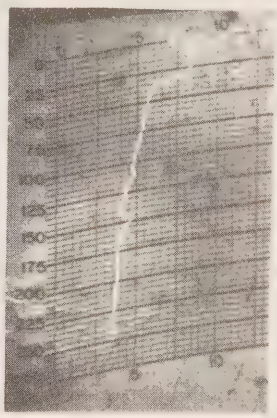
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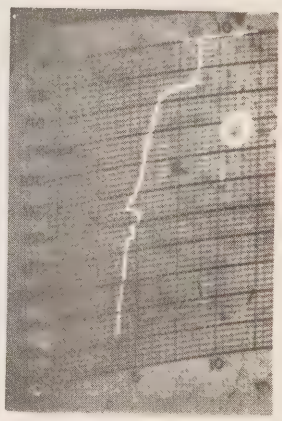
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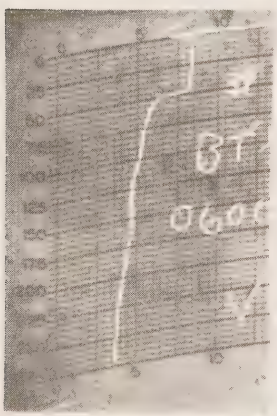
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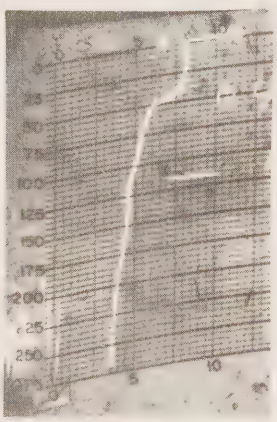
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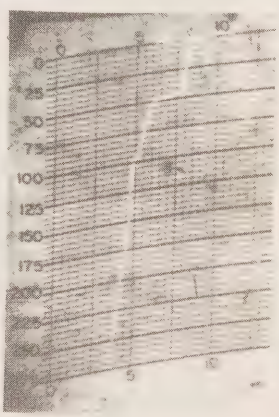
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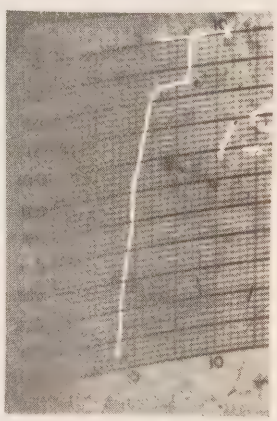
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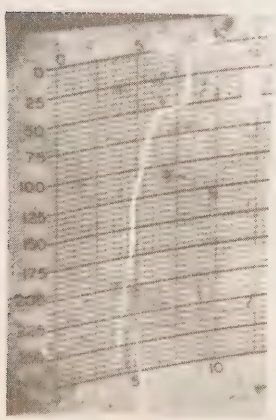
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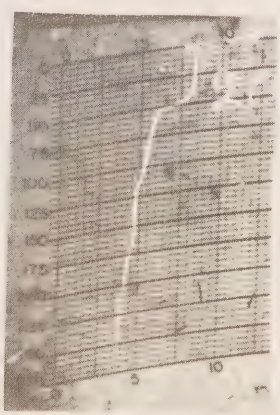
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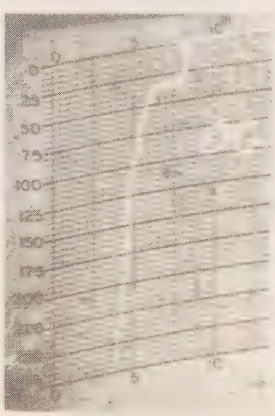
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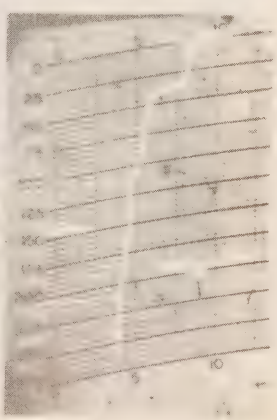
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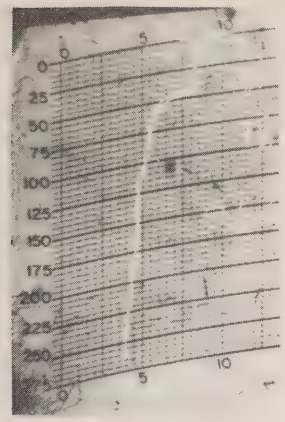

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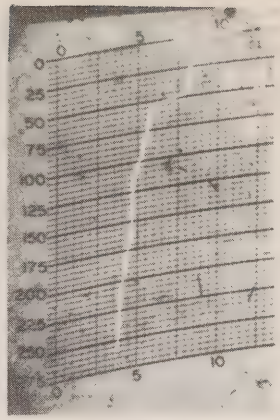

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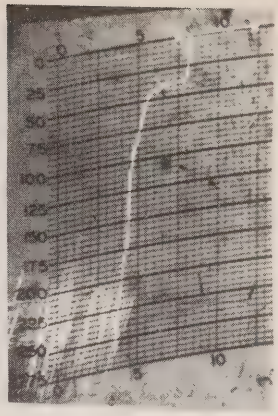

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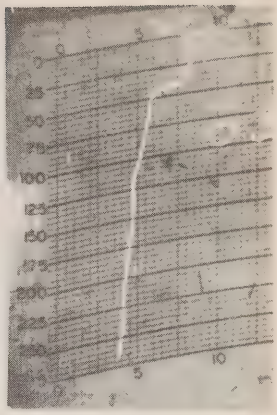

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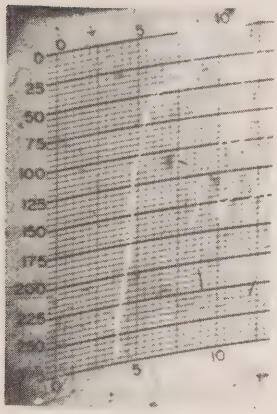

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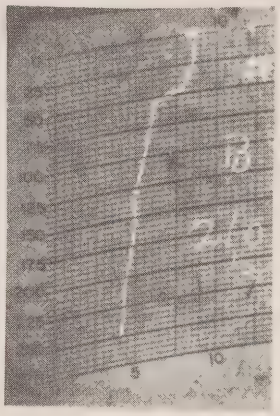

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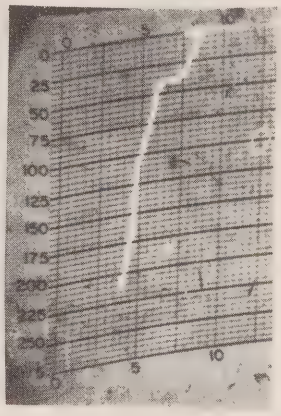

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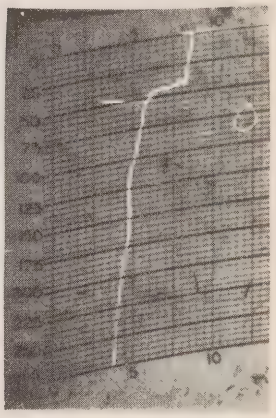

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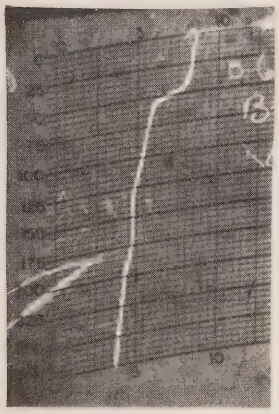

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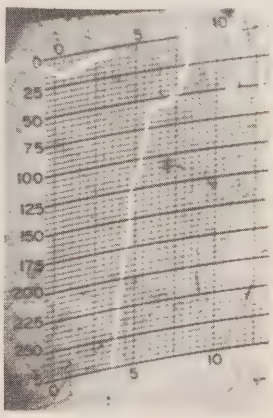

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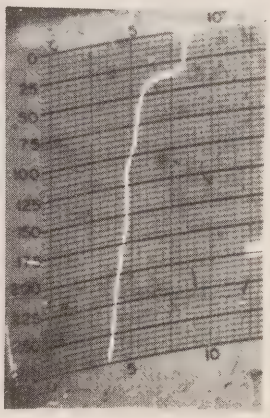

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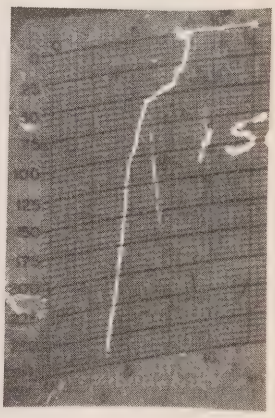

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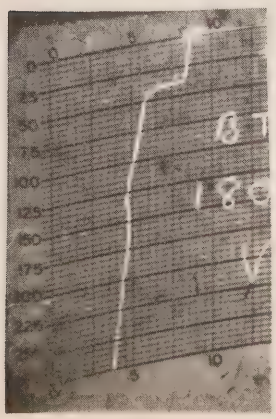

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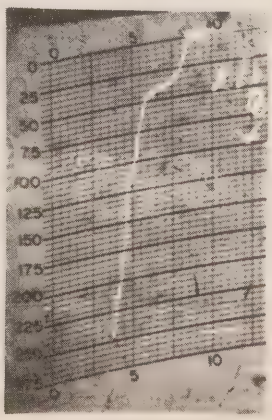

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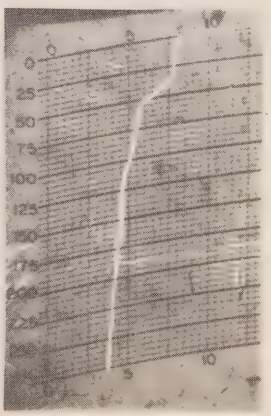

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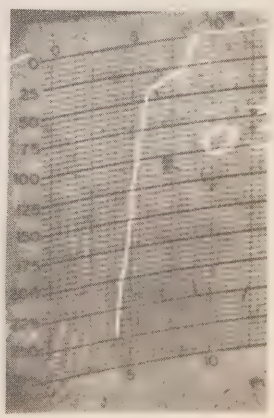

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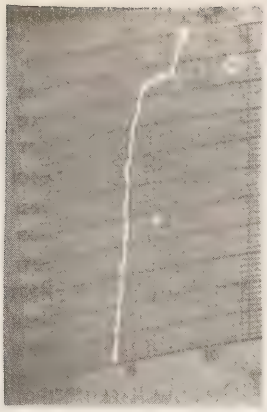

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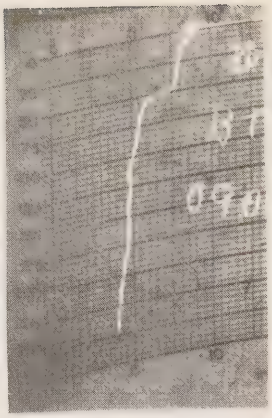

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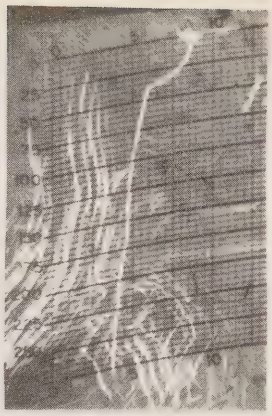

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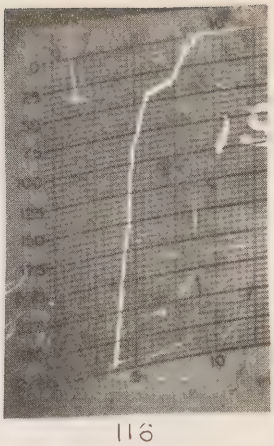

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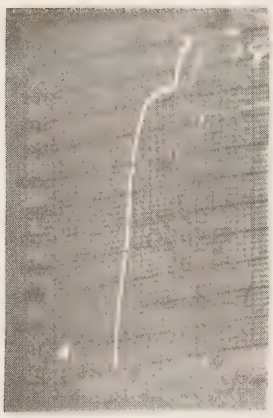

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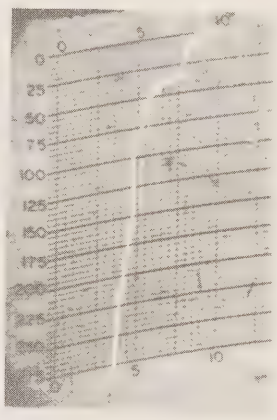

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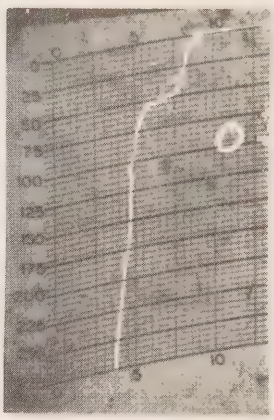

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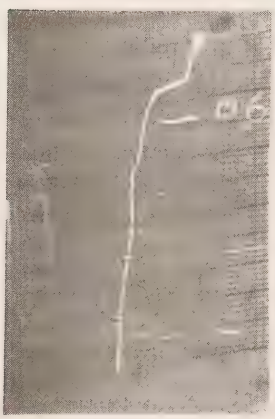

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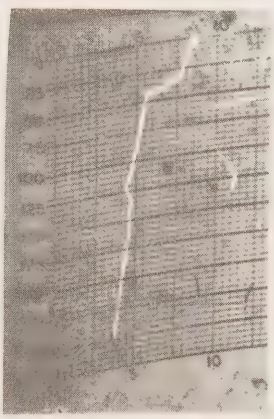

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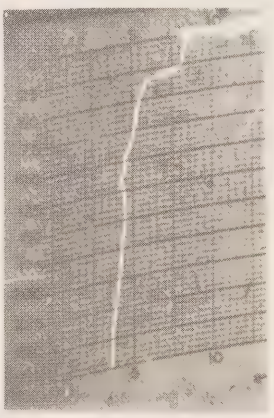

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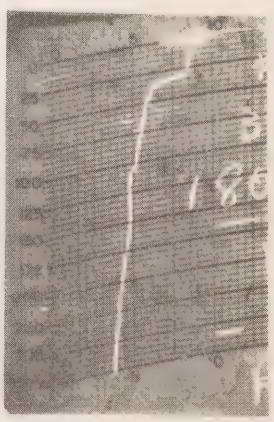

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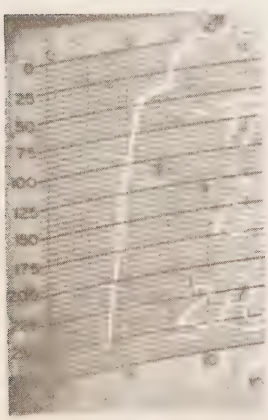

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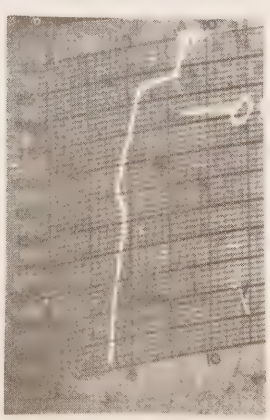

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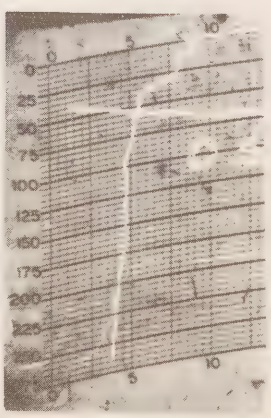

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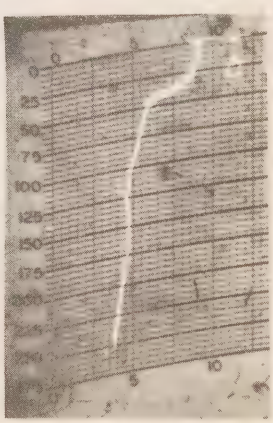

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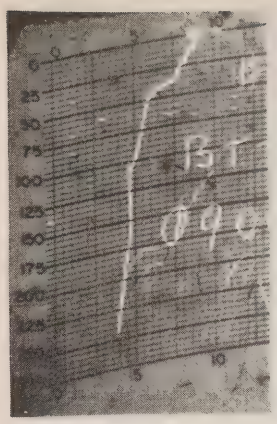

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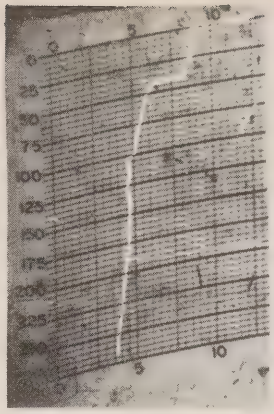

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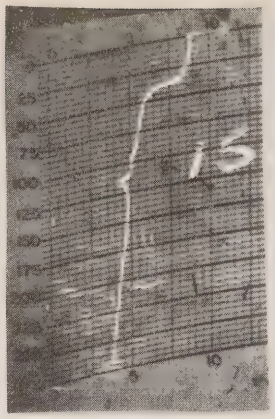

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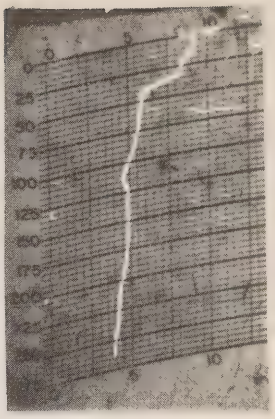

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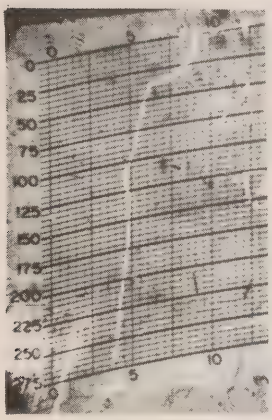

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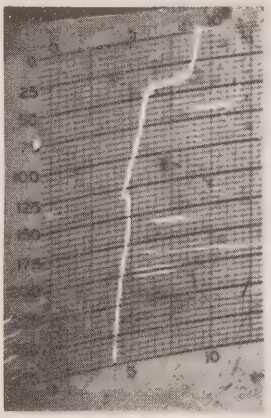

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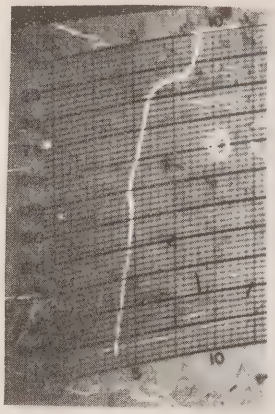

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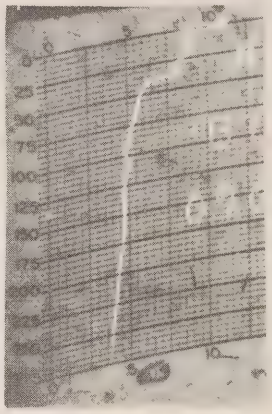

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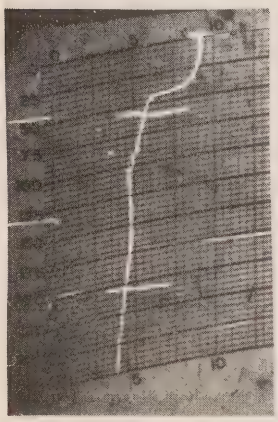

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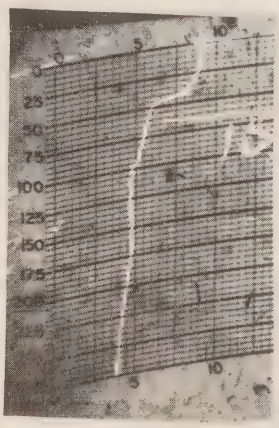

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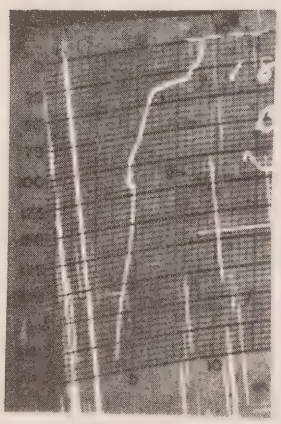

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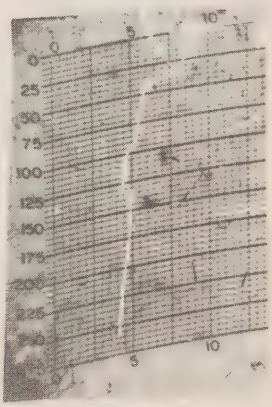

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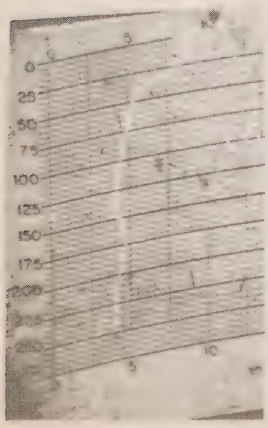

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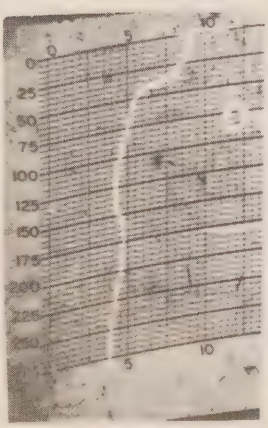

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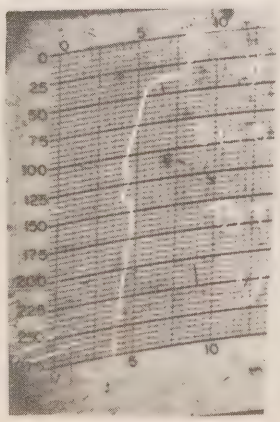

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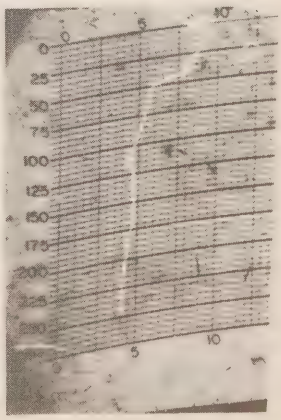

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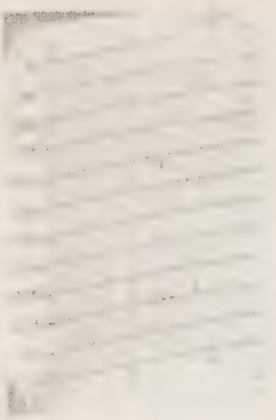

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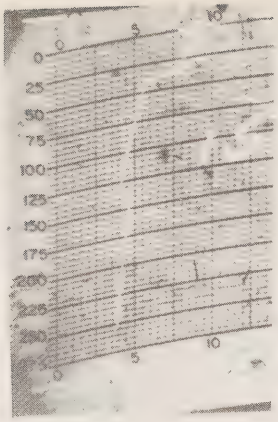

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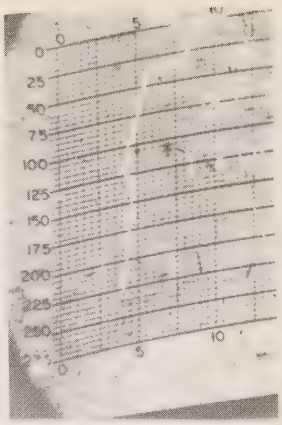

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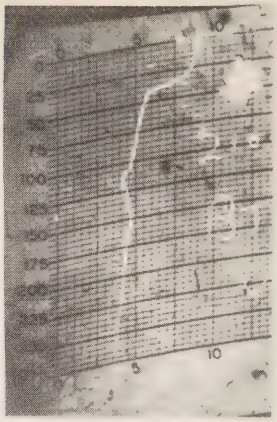

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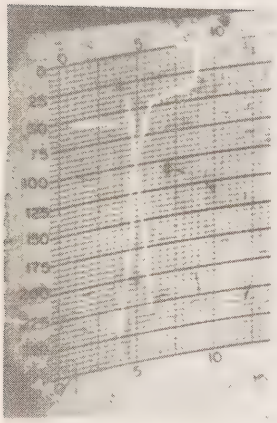

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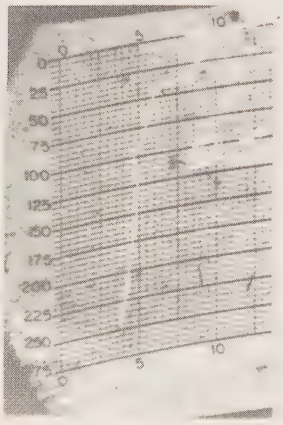

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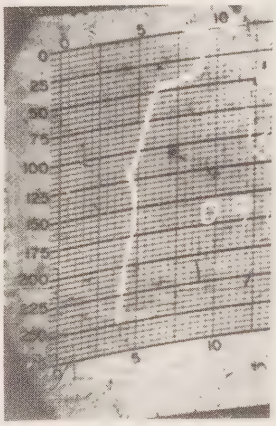

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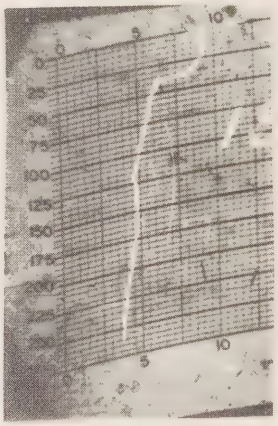

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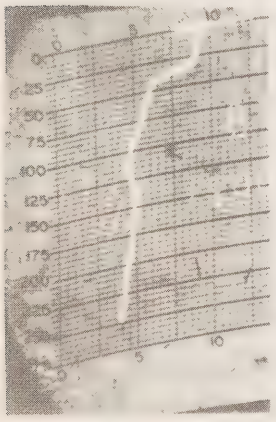

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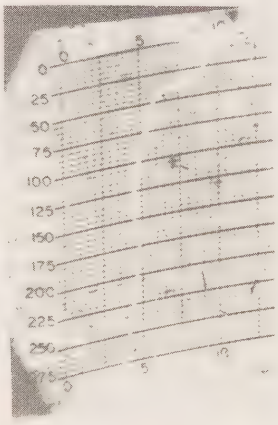

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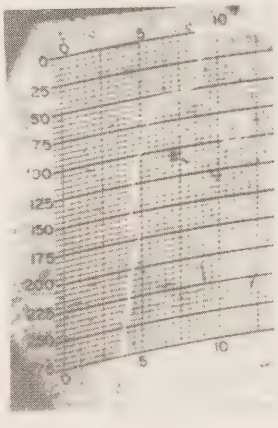

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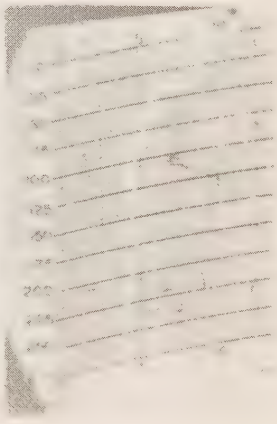

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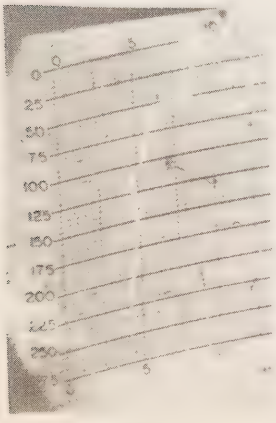

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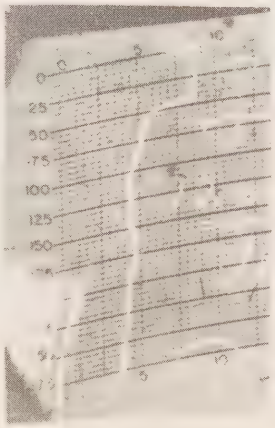

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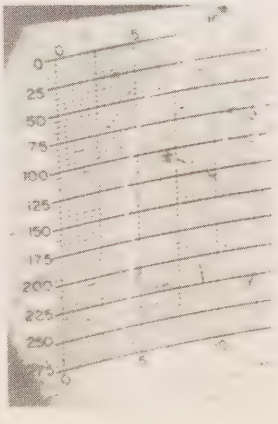

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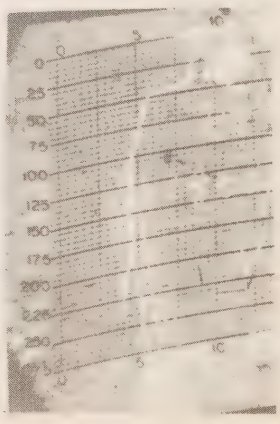

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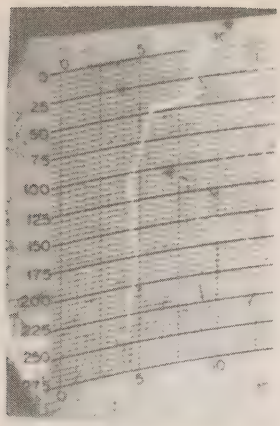

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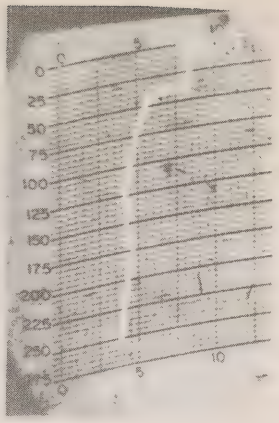

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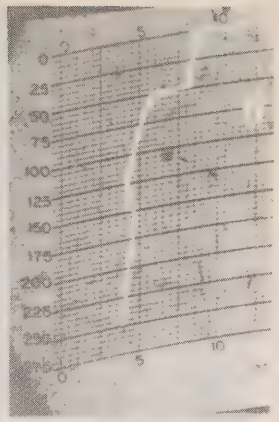

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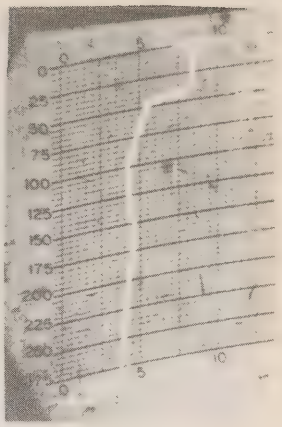

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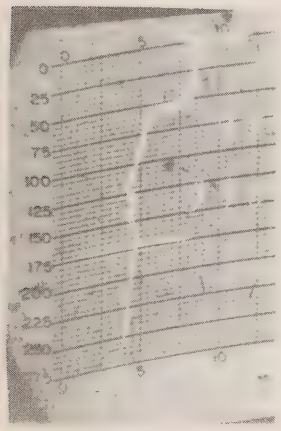

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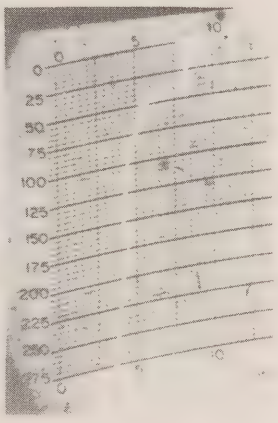

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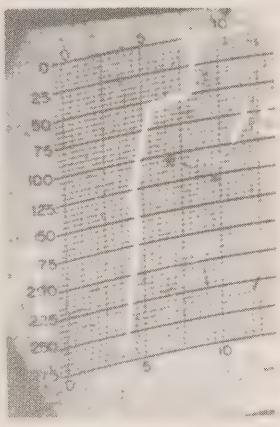

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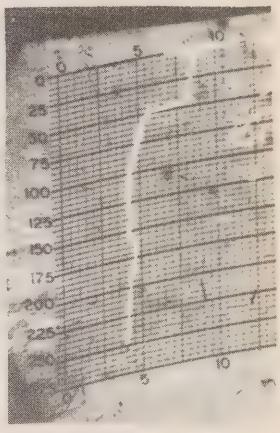

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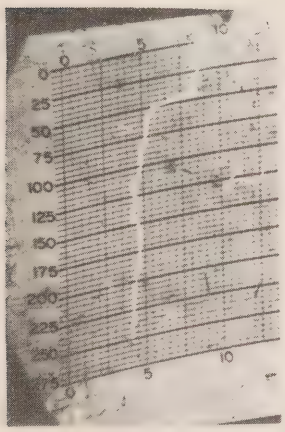

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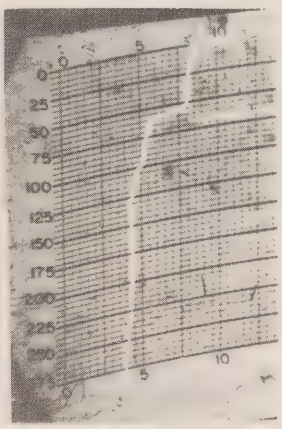

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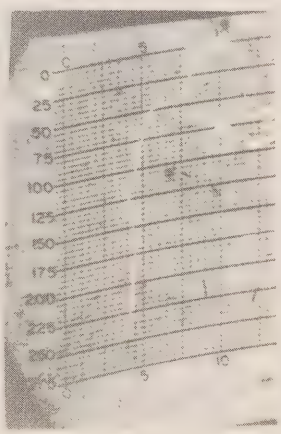

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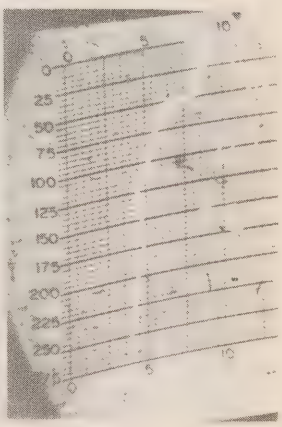

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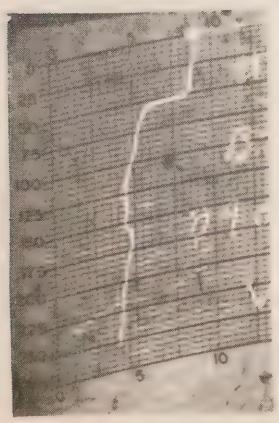

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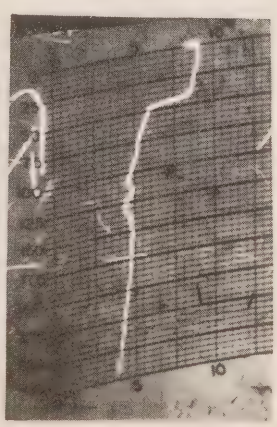

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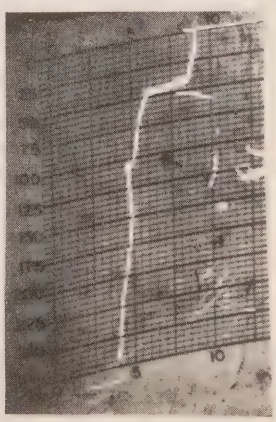

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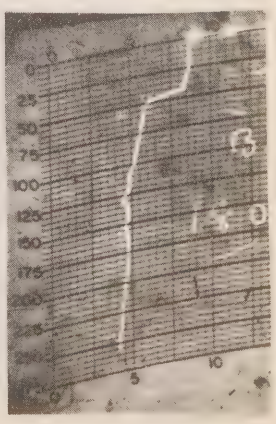

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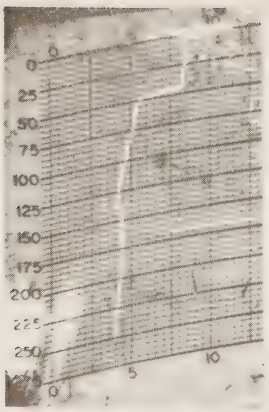

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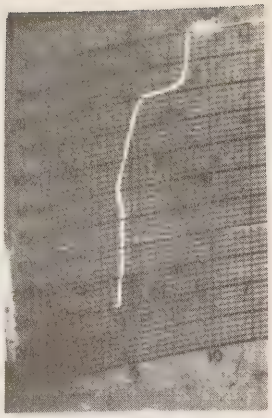

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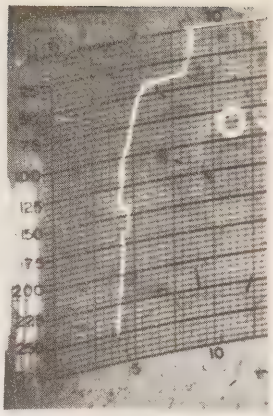

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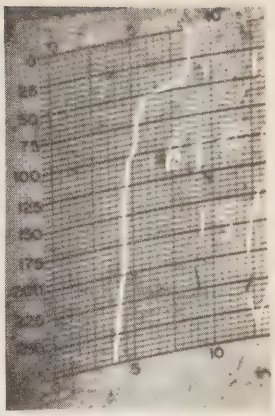

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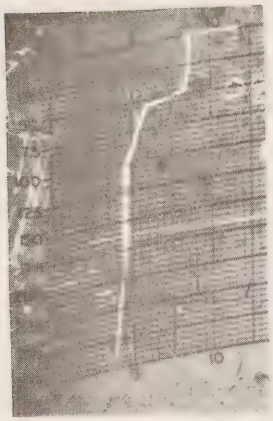

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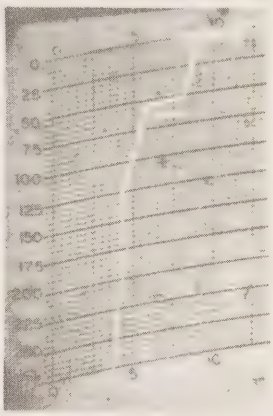

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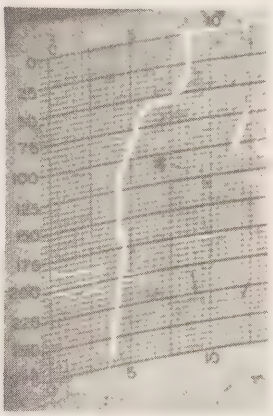

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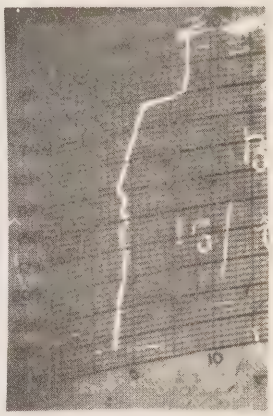

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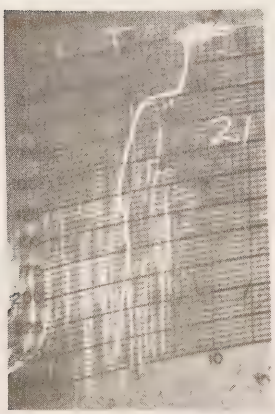

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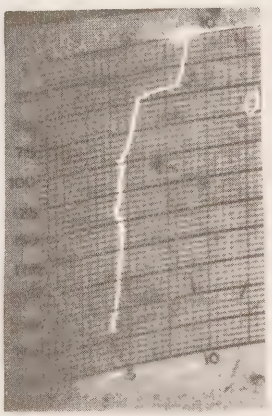

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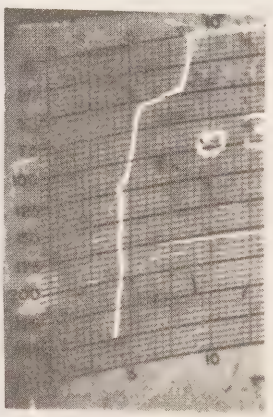

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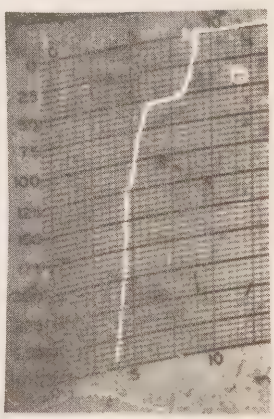

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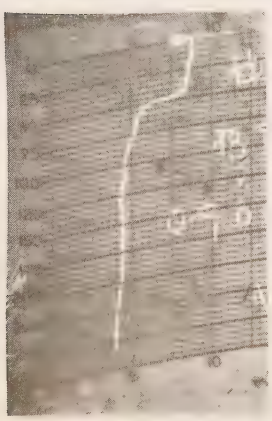

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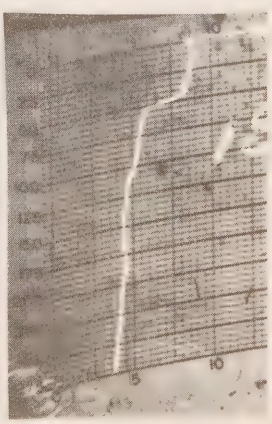

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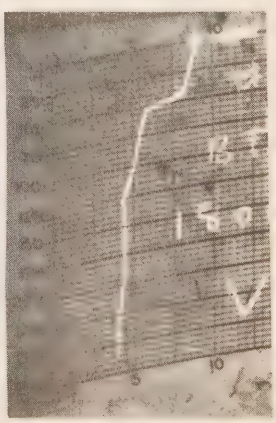

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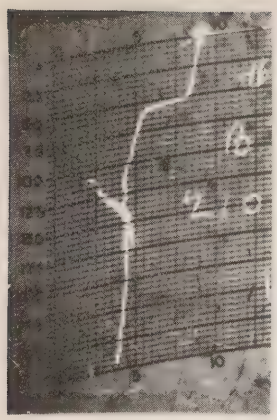
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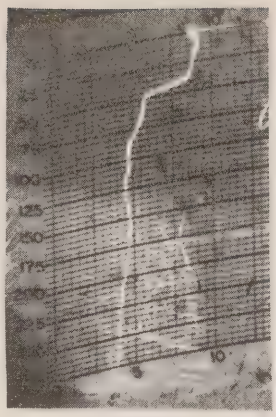
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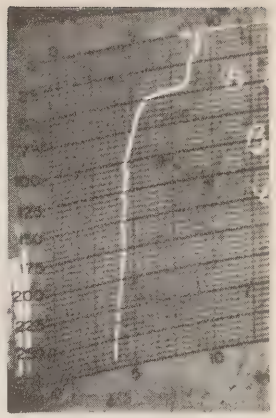
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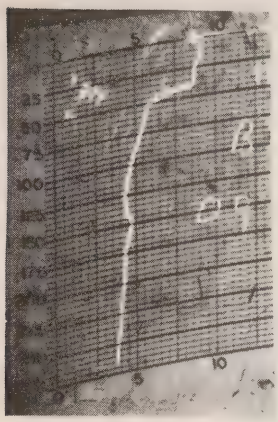
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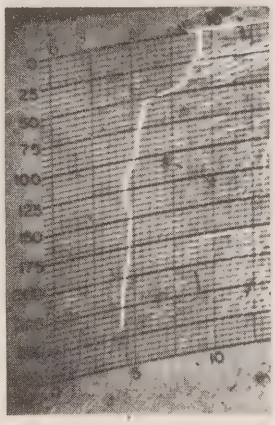
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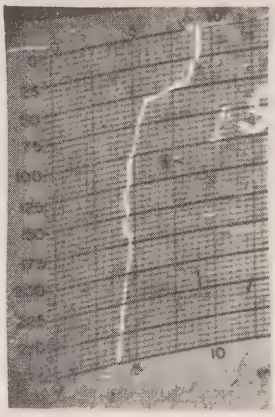
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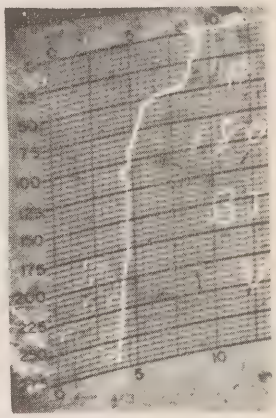
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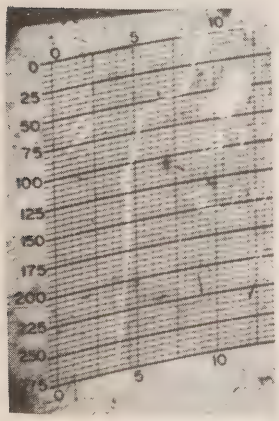
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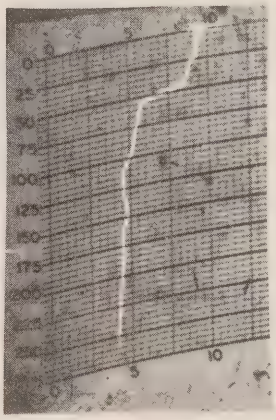
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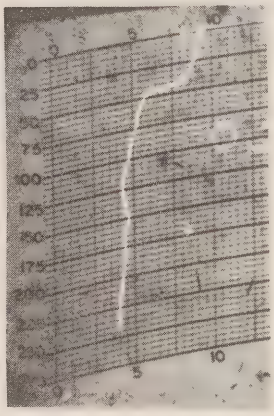
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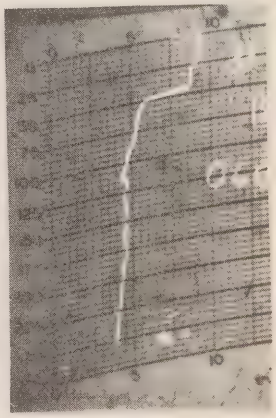
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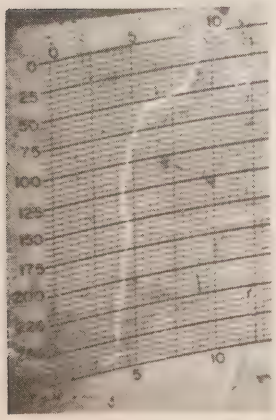
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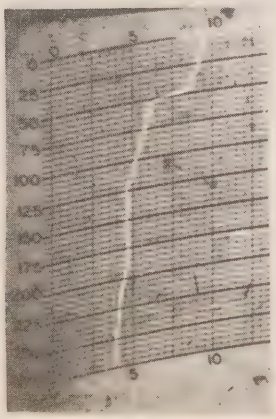
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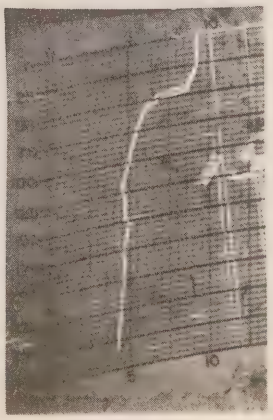
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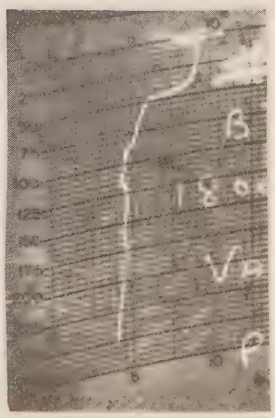
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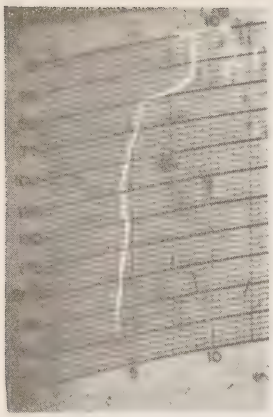

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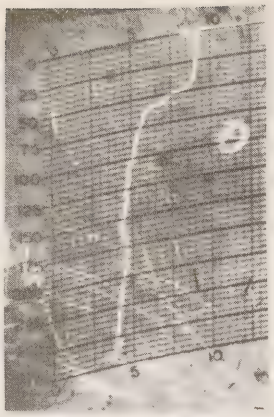

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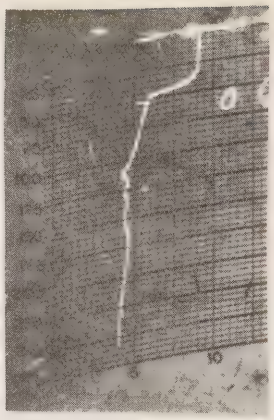

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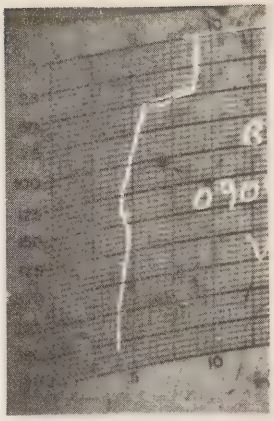

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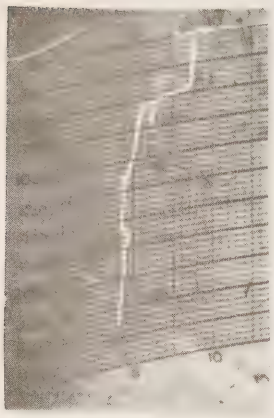

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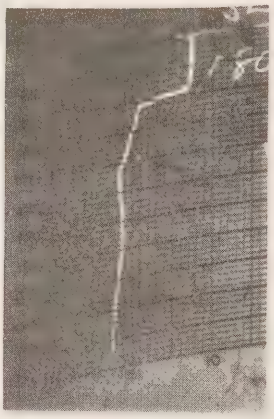

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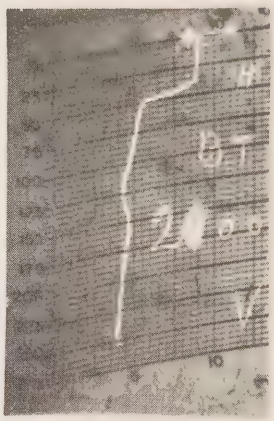

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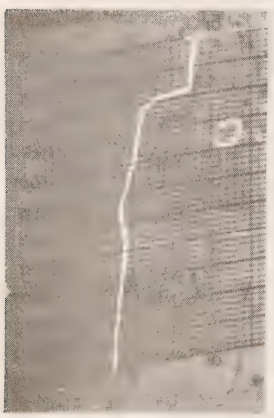

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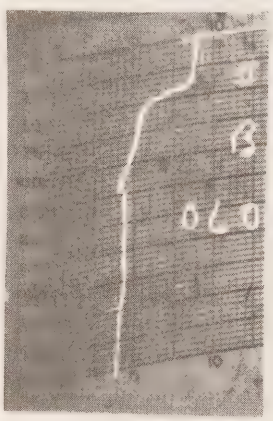

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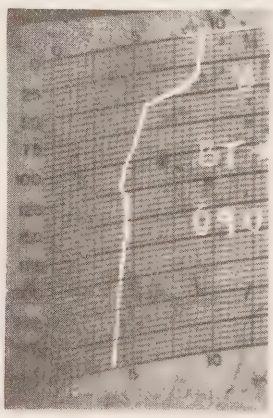

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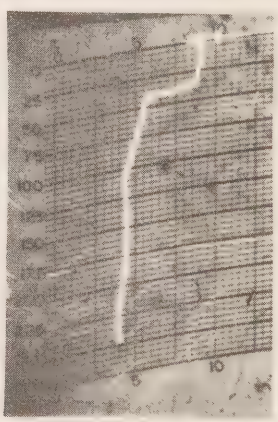

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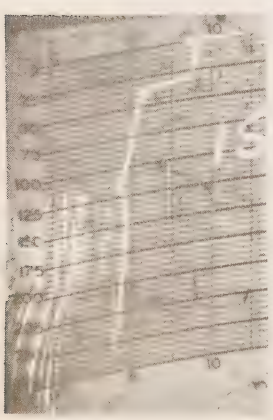

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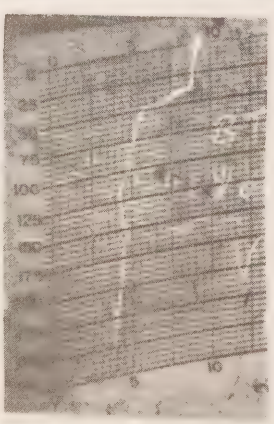

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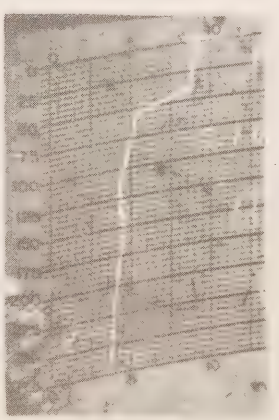

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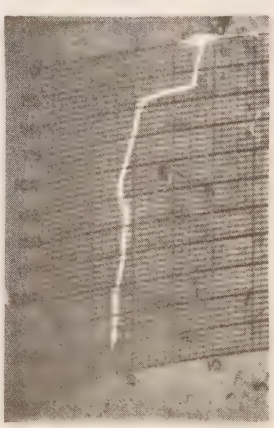

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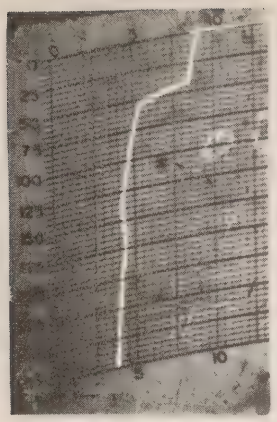

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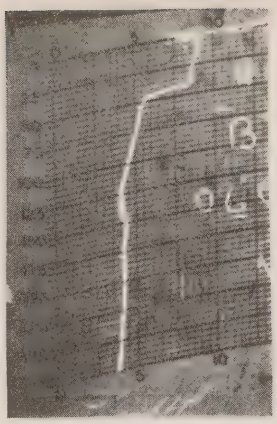

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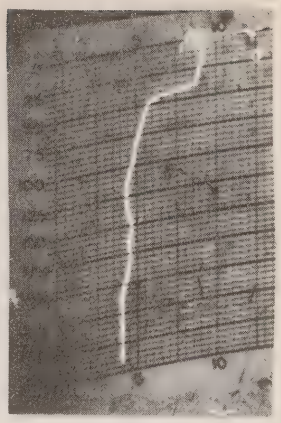

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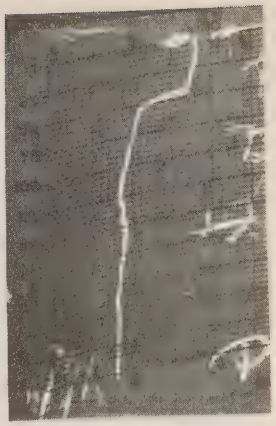

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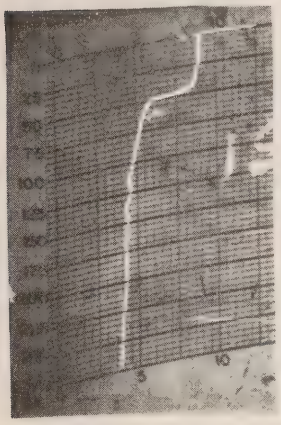

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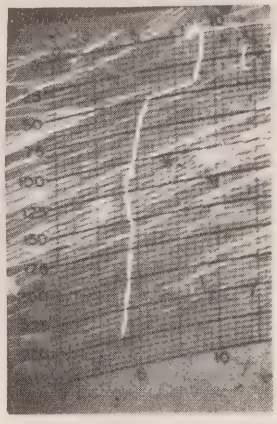

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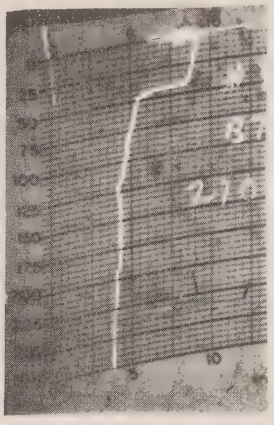

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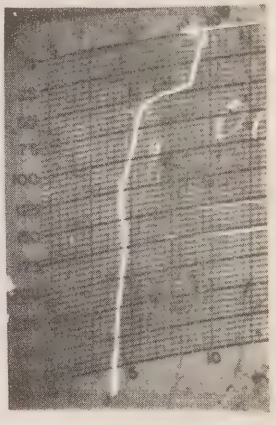

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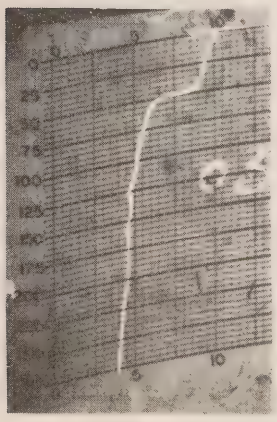

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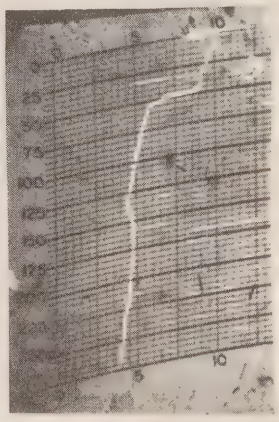

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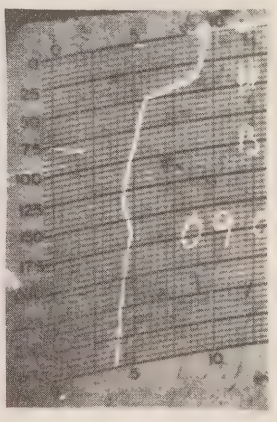

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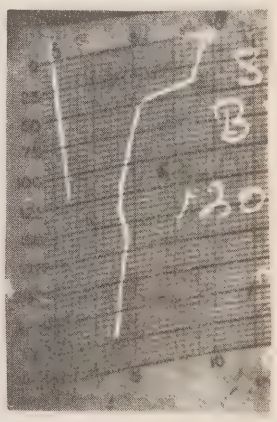

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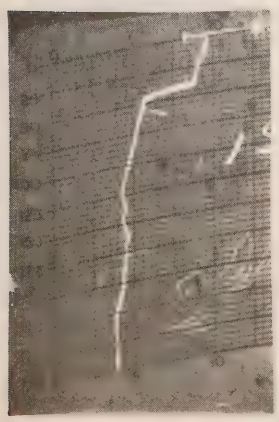

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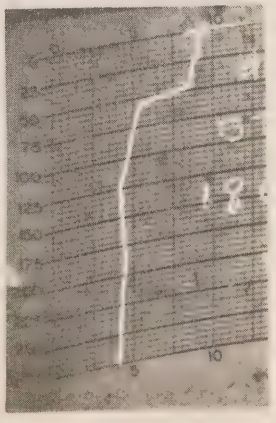

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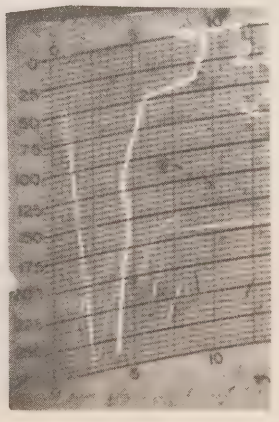

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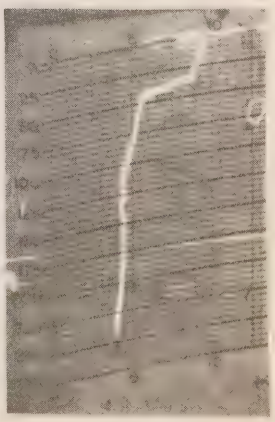

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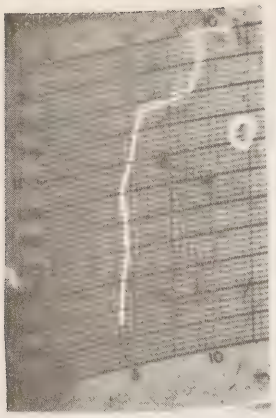

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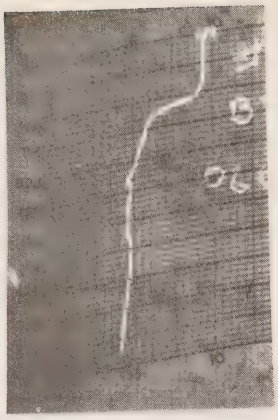

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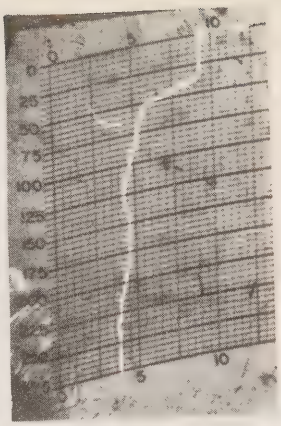

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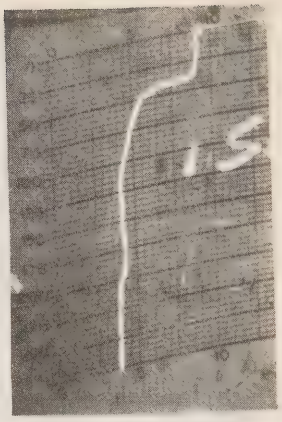

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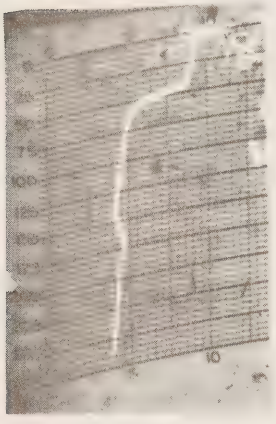

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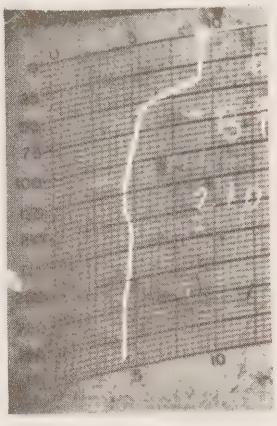

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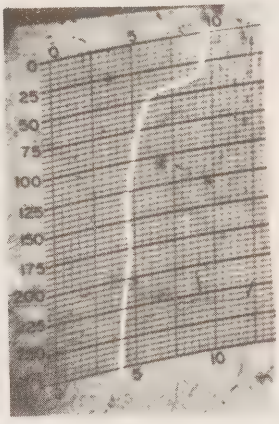

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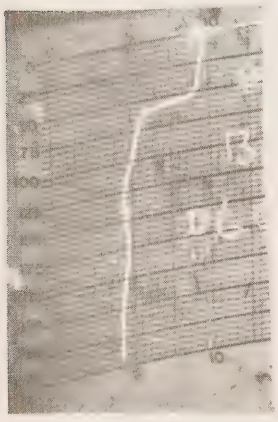

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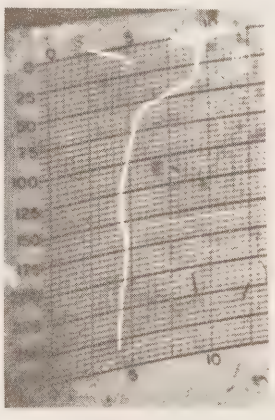

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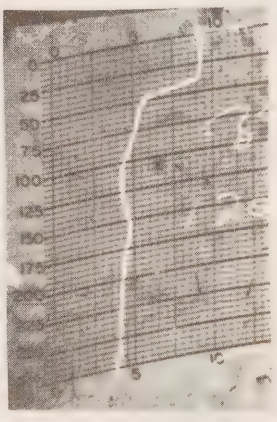

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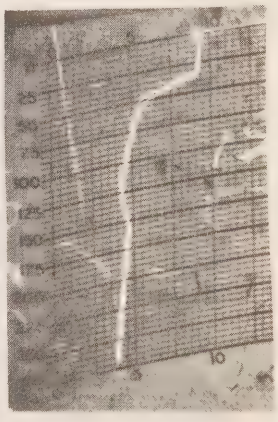

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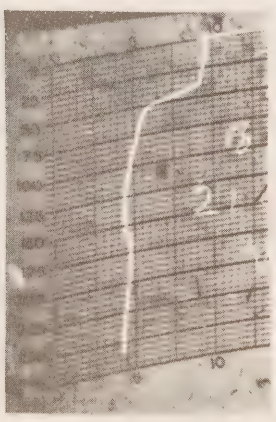

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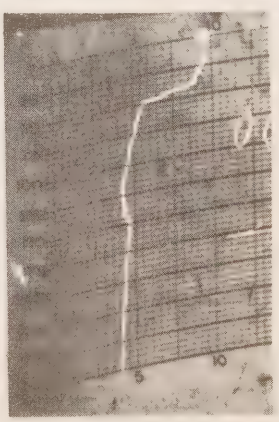

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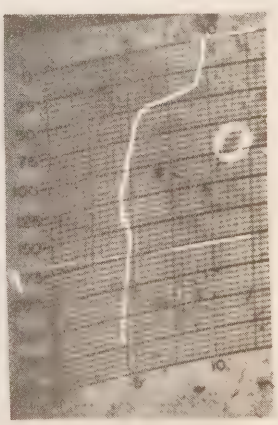

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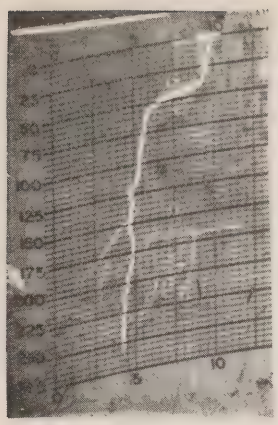

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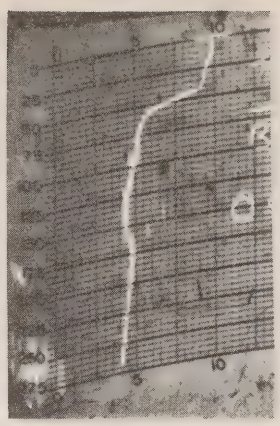

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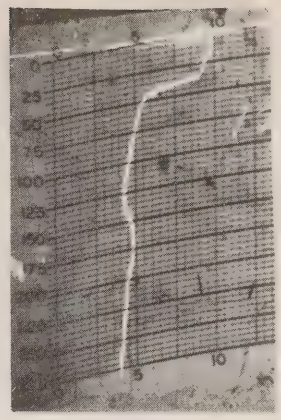

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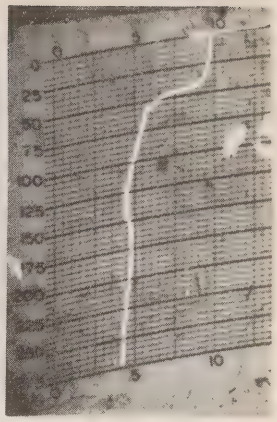

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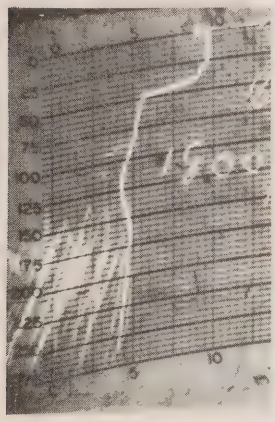

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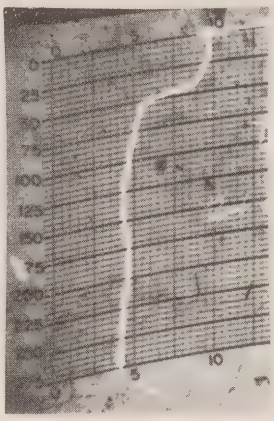

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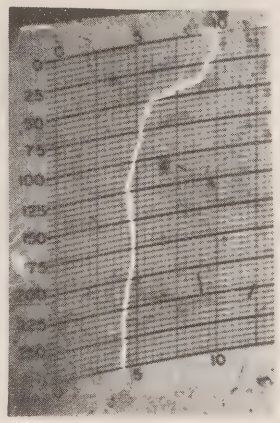

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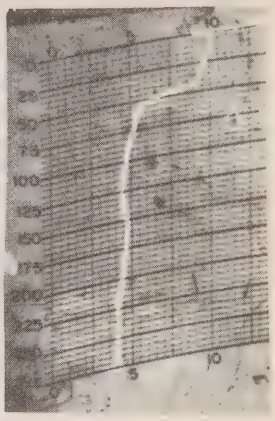

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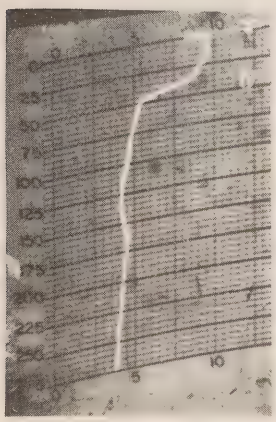

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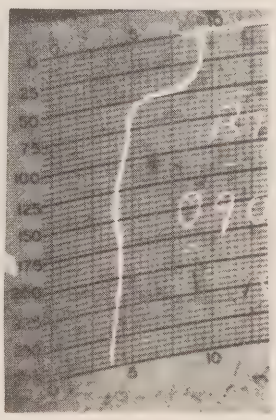

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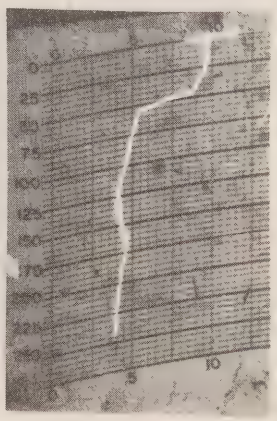

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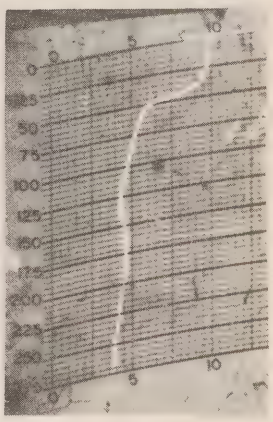

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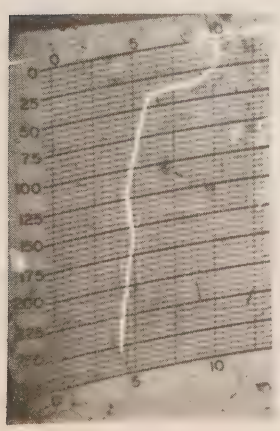

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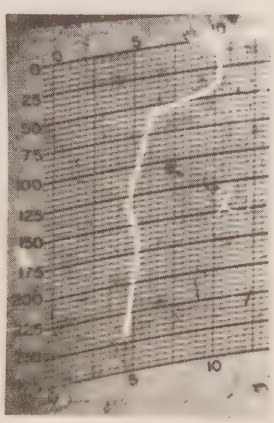

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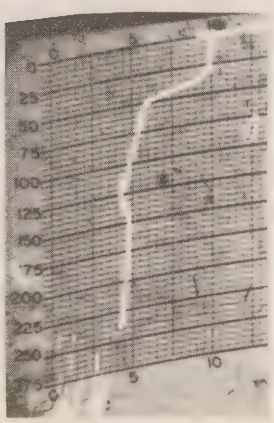

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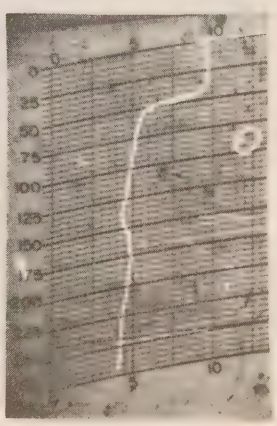

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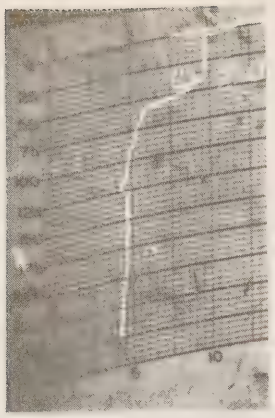

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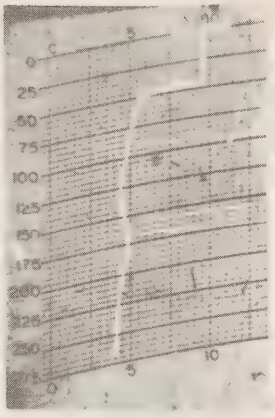

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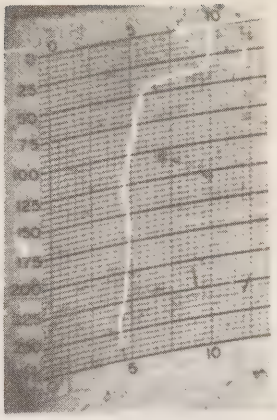

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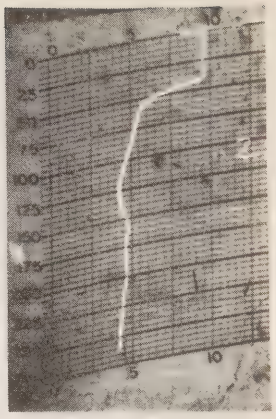

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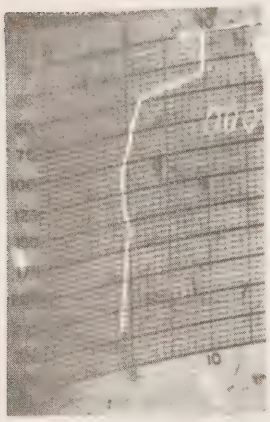

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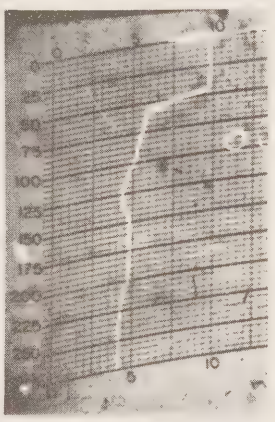

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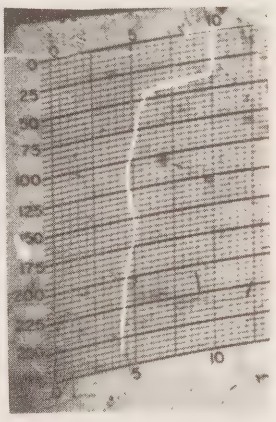

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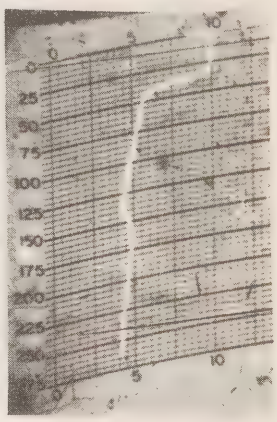

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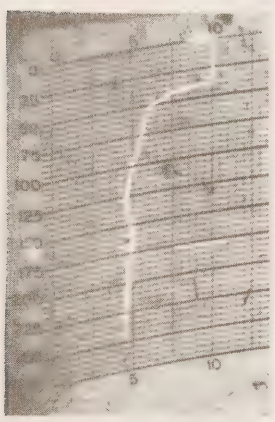

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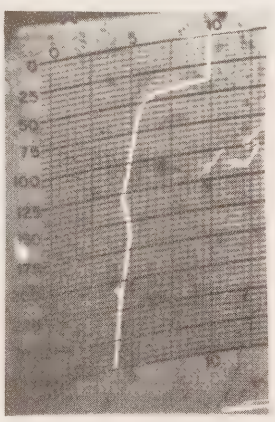

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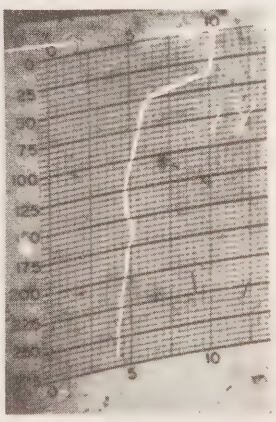

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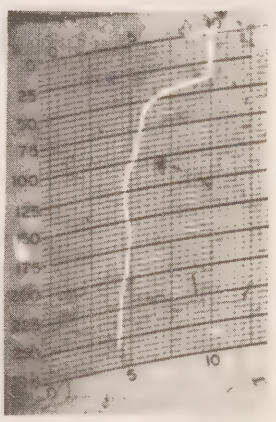

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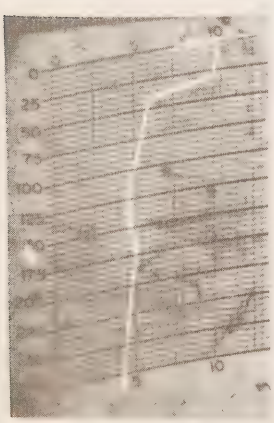

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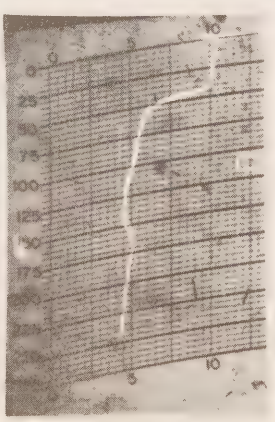

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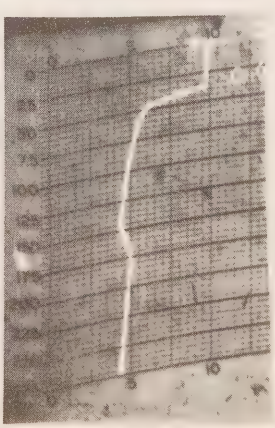

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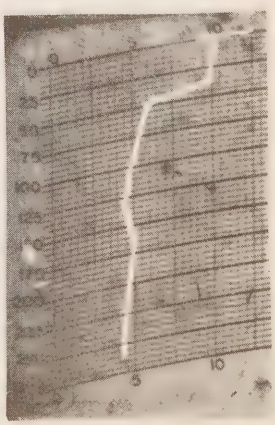

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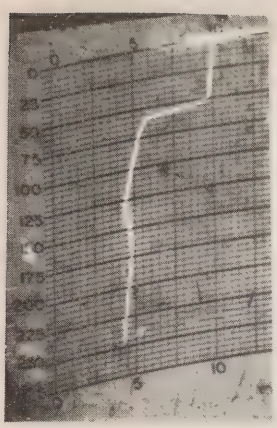

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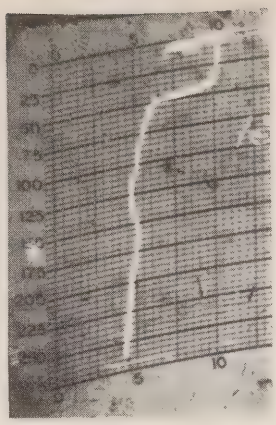

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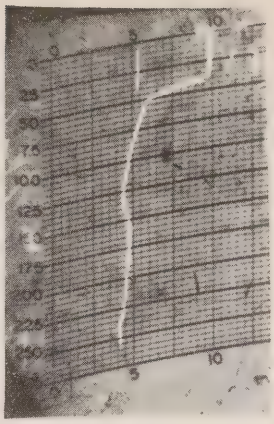

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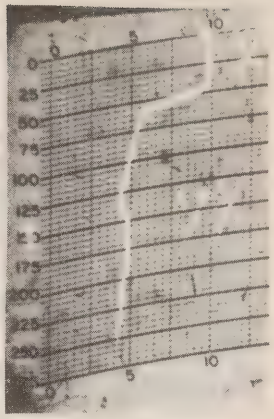
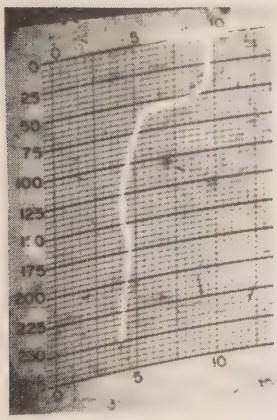


294



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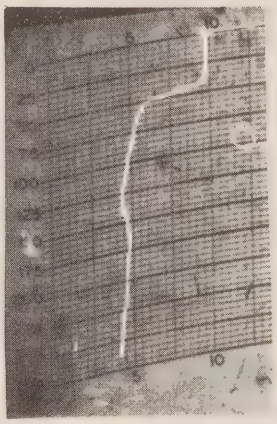
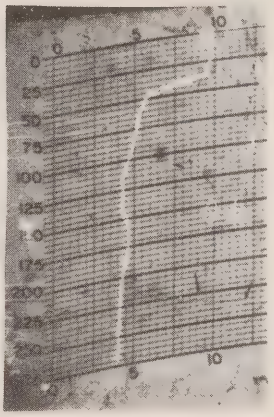


296



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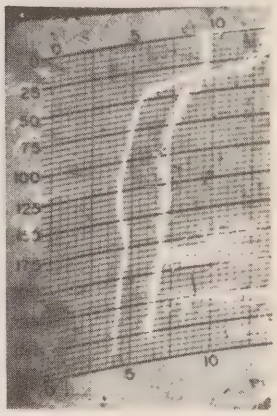

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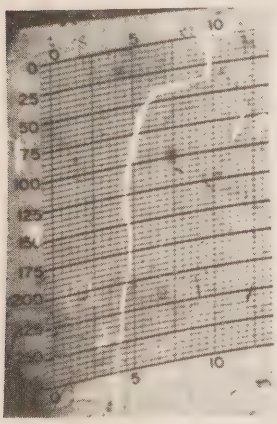

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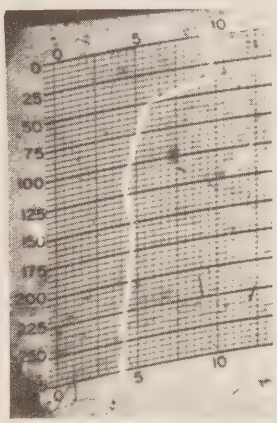

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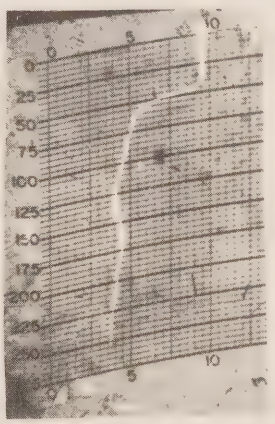
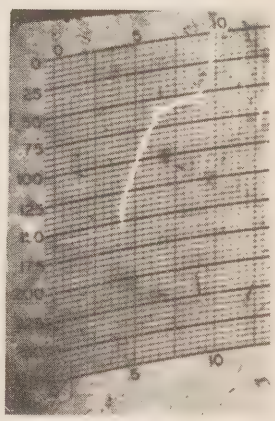
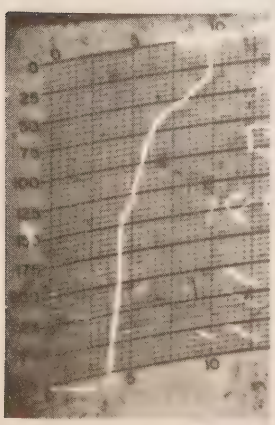


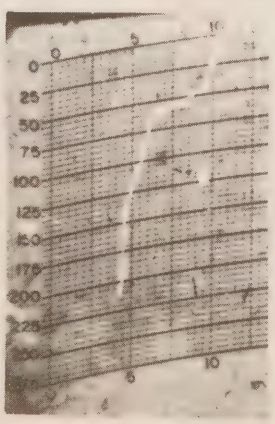
301



302



303



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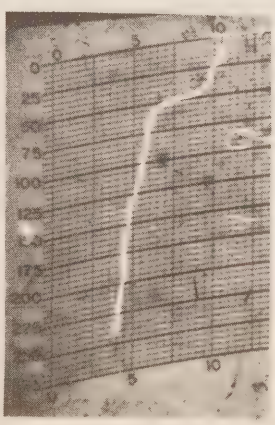

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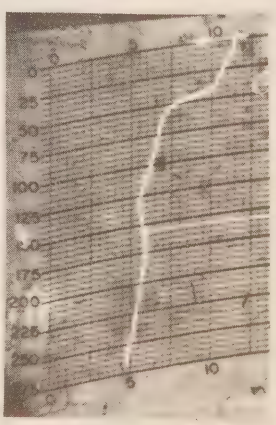

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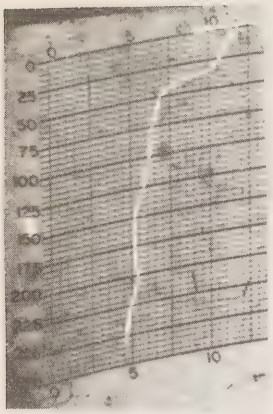

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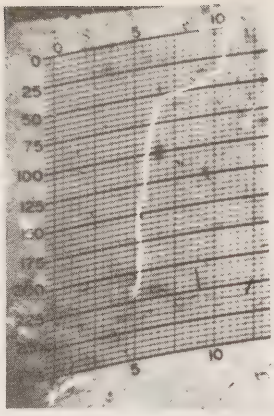

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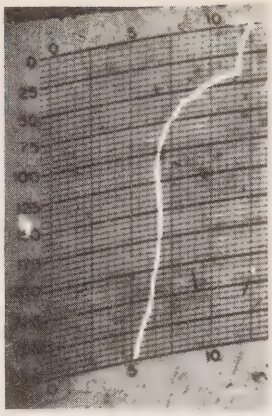

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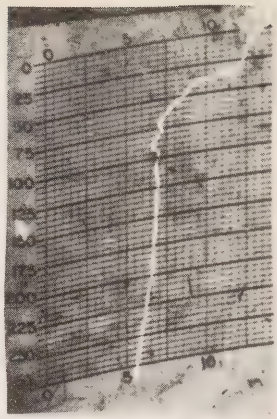

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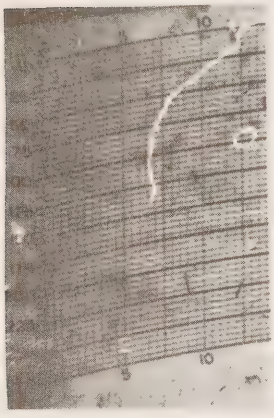
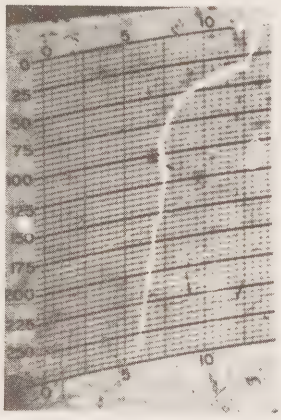
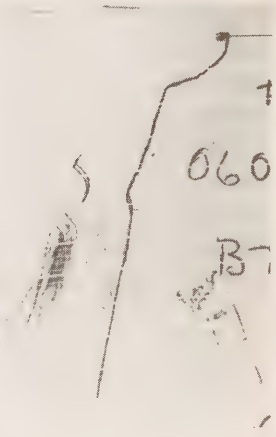


311



312

124

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CCGS "QUADRA" 02-68-007

BATHYTHERMOGRAMS

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 001 | 48 | 33 | 125 | 32 | 28 | 06 | 68 | 22 | 25 | 0128 | 01 | 02 | 20 | 33 | | | | 8 | 1 |
| 002 | 48 | 38 | 126 | 00 | 29 | 06 | 68 | 00 | 00 | 0110 | 18 | 02 | 25 | 33 | | | | 0 | 0 |
| 003 | 49 | 00 | 130 | 40 | 29 | 06 | 68 | 15 | 00 | 2930 | 26 | 02 | 30 | 45 | | | | 4 | 8 |
| 004 | 49 | 05 | 131 | 41 | 29 | 06 | 68 | 18 | 30 | 2875 | 27 | 02 | 15 | 45 | | | | 4 | 8 |
| 005 | 49 | 09 | 132 | 40 | 29 | 06 | 68 | 21 | 50 | 3275 | 26 | 02 | 15 | 33 | | | | 6 | 8 |
| 006 | 49 | 15 | 133 | 40 | 30 | 06 | 68 | 01 | 40 | 3200 | 27 | 02 | 06 | 22 | | | | 6 | 8 |
| 007 | 49 | 18 | 134 | 40 | 30 | 06 | 68 | 04 | 00 | 3550 | 27 | 02 | 04 | 22 | | | | 6 | 8 |
| 008 | 49 | 22 | 135 | 40 | 30 | 06 | 68 | 07 | 00 | 3200 | 27 | 02 | 02 | 22 | | | | 6 | 8 |
| 009 | 49 | 26 | 136 | 40 | 30 | 06 | 68 | 10 | 30 | 3775 | 22 | 02 | 04 | | | | | 7 | 8 |
| 010 | 49 | 30 | 137 | 40 | 30 | 06 | 68 | 14 | 00 | 3850 | 23 | 02 | 02 | 22 | | | | 7 | 8 |
| 011 | 49 | 34 | 138 | 40 | 30 | 06 | 68 | 16 | 00 | 3890 | 21 | 02 | 24 | 34 | | | | 7 | 8 |
| 012 | 49 | 38 | 139 | 40 | 30 | 06 | 68 | 20 | 40 | 3840 | 20 | 02 | 22 | 34 | | | | 7 | 8 |
| 013 | 49 | 41 | 140 | 40 | 01 | 07 | 68 | 00 | 00 | 3881 | 16 | 20 | 27 | 34 | | | | 7 | 8 |
| 014 | 49 | 45 | 141 | 40 | 01 | 07 | 68 | 03 | 00 | 3970 | 16 | 51 | 27 | 45 | | | | 7 | 8 |
| 015 | 50 | 05 | 145 | 05 | 01 | 07 | 68 | 15 | 00 | 4221 | 14 | 51 | 15 | 05 | | | | 7 | 8 |
| 016 | 50 | 07 | 145 | 02 | 01 | 07 | 68 | 18 | 00 | 4221 | 15 | 10 | 17 | 04 | | | | 7 | 8 |
| 017 | 49 | 58 | 145 | 02 | 01 | 07 | 68 | 21 | 00 | 4221 | 16 | 01 | 12 | 03 | | | | 6 | 3 |
| 018 | 50 | 02 | 145 | 04 | 02 | 07 | 68 | 00 | 00 | 4221 | 16 | 28 | 13 | 02 | | | | 6 | 8 |
| 019 | 50 | 05 | 145 | 08 | 02 | 07 | 68 | 03 | 00 | 4221 | 15 | 28 | 13 | 22 | | | | 8 | 7 |
| 020 | 50 | 05 | 145 | 04 | 02 | 07 | 68 | 06 | 00 | 4221 | 14 | 51 | 16 | 23 | | | | 9 | 9 |
| 021 | 50 | 00 | 145 | 04 | 02 | 07 | 68 | 09 | 00 | 4221 | 15 | 20 | 20 | 33 | | | | 8 | 7 |
| 022 | 49 | 58 | 145 | 07 | 02 | 07 | 68 | 12 | 00 | 4221 | 15 | 45 | 20 | 23 | | | | 9 | 9 |
| 023 | 49 | 58 | 145 | 14 | 02 | 07 | 68 | 15 | 00 | 4221 | 14 | 61 | 20 | 22 | | | | 8 | 7 |
| 024 | 49 | 57 | 145 | 11 | 02 | 07 | 68 | 18 | 00 | 4221 | 14 | 61 | 22 | 22 | | | | 8 | 7 |
| 025 | 50 | 02 | 144 | 58 | 02 | 07 | 68 | 21 | 00 | 4221 | 14 | 02 | 26 | 22 | | | | 8 | 7 |

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 026 | 49 | 58 | 145 | 04 | 03 | 07 | 68 | 00 | 00 | 4221 | 13 | 61 | 23 | 22 | | | | 4 | 5 |
| 027 | 49 | 57 | 145 | 11 | 03 | 07 | 68 | 03 | 00 | 4221 | 12 | 61 | 23 | 05 | 64 | | | 7 | 8 |
| 028 | 50 | 00 | 145 | 07 | 03 | 07 | 68 | 06 | 00 | 4221 | 11 | 61 | 23 | 05 | 65 | | | 7 | 8 |
| 029 | 50 | 04 | 144 | 55 | 03 | 07 | 68 | 09 | 00 | 4221 | 11 | 51 | 18 | 05 | 65 | | | 7 | 8 |
| 030 | 50 | 10 | 144 | 52 | 03 | 07 | 68 | 12 | 00 | 4221 | 13 | 51 | 14 | 05 | 65 | | | 7 | 8 |
| 031 | 50 | 10 | 144 | 55 | 03 | 07 | 68 | 15 | 00 | 4221 | 12 | 61 | 10 | 05 | 65 | | | 5 | 8 |
| 032 | 49 | 59 | 145 | 00 | 03 | 07 | 68 | 18 | 00 | 4221 | 13 | 10 | 09 | 05 | 65 | | | 6 | 8 |
| 033 | 49 | 58 | 145 | 03 | 03 | 07 | 68 | 21 | 00 | 4221 | 12 | 02 | 11 | 06 | 65 | | | 6 | 8 |
| 034 | 50 | 04 | 145 | 04 | 04 | 07 | 68 | 00 | 00 | 4221 | 12 | 10 | 12 | 06 | 63 | | | 6 | 8 |
| 035 | 50 | 05 | 145 | 02 | 04 | 07 | 68 | 03 | 00 | 4221 | 12 | 01 | 12 | 06 | 63 | | | 4 | 4 |
| 036 | 50 | 04 | 144 | 59 | 04 | 07 | 68 | 06 | 00 | 4221 | 12 | 02 | 13 | 06 | 63 | | | 7 | 7 |
| 037 | 50 | 00 | 145 | 00 | 04 | 07 | 68 | 09 | 00 | 4221 | 12 | 02 | 16 | 06 | 63 | | | 8 | 8 |
| 038 | 50 | 01 | 145 | 07 | 04 | 07 | 68 | 12 | 00 | 4221 | 12 | 02 | 08 | 00 | 62 | | | 8 | 8 |
| 039 | 50 | 00 | 145 | 12 | 04 | 07 | 68 | 15 | 00 | 4221 | 12 | 53 | 04 | 00 | 62 | | | 8 | 8 |
| 040 | 50 | 00 | 144 | 59 | 04 | 07 | 68 | 18 | 00 | 4221 | 12 | 02 | 00 | 00 | 62 | | | 8 | 8 |
| 041 | 50 | 01 | 144 | 58 | 04 | 07 | 68 | 21 | 00 | 4221 | 12 | 02 | 00 | 00 | 62 | | | 8 | 8 |
| 042 | 50 | 01 | 144 | 58 | 05 | 07 | 68 | 00 | 00 | 4221 | 13 | 02 | 00 | 00 | 62 | | | 8 | 8 |
| 043 | 50 | 02 | 144 | 58 | 05 | 07 | 68 | 03 | 00 | 4221 | 13 | 02 | 02 | 00 | 62 | | | 6 | 8 |
| 044 | 50 | 05 | 144 | 57 | 05 | 07 | 68 | 06 | 00 | 4221 | 12 | 02 | 00 | 00 | 62 | | | 6 | 8 |
| 045 | 50 | 07 | 144 | 53 | 05 | 07 | 68 | 09 | 00 | 4221 | 15 | 02 | 05 | 00 | 62 | | | 6 | 8 |
| 046 | 50 | 10 | 144 | 54 | 05 | 07 | 68 | 12 | 00 | 4221 | 16 | 02 | 03 | 00 | 62 | | | 6 | 8 |
| 047 | 50 | 03 | 149 | 58 | 05 | 07 | 68 | 15 | 00 | 4221 | 16 | 02 | 05 | 00 | 62 | | | 6 | 8 |
| 048 | 50 | 03 | 145 | 03 | 05 | 07 | 68 | 18 | 00 | 4221 | 15 | 02 | 02 | 52 | 00 | | | 6 | 8 |
| 049 | 50 | 04 | 145 | 06 | 05 | 07 | 68 | 21 | 00 | 4221 | 16 | 02 | 05 | 53 | 00 | | | 6 | 8 |
| 050 | 50 | 03 | 145 | 09 | 06 | 07 | 68 | 00 | 00 | 4221 | 16 | 02 | 12 | 52 | 00 | | | 6 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 051 | 50 | 03 | 145 | 12 | 06 | 07 | 68 | 03 | 00 | 4221 | 14 | 02 | 14 | 21 | | | | 7 | 8 |
| 052 | 50 | 01 | 145 | 05 | 06 | 07 | 68 | 06 | 00 | 4221 | 12 | 02 | 18 | 21 | | | | 7 | 8 |
| 053 | 50 | 01 | 144 | 59 | 06 | 07 | 68 | 09 | 00 | 4221 | 11 | 61 | 22 | 23 | | | | 7 | 8 |
| 054 | 50 | 04 | 145 | 02 | 06 | 07 | 68 | 15 | 00 | 4221 | 08 | 61 | 24 | 33 | | | | 7 | 8 |
| 055 | 50 | 04 | 144 | 51 | 06 | 07 | 68 | 18 | 00 | 4221 | 05 | 61 | 28 | 33 | | | | 7 | 8 |
| 056 | 49 | 54 | 144 | 37 | 06 | 07 | 68 | 21 | 00 | 4221 | 02 | 61 | 28 | 33 | | | | 7 | 8 |
| 057 | 50 | 02 | 144 | 57 | 07 | 07 | 68 | 00 | 00 | 4221 | 01 | 61 | 15 | 22 | | | | 7 | 8 |
| 058 | 50 | 03 | 145 | 03 | 07 | 07 | 68 | 03 | 00 | 4221 | -99 | 61 | 13 | 22 | | | | 6 | 8 |
| 059 | 50 | 01 | 145 | 05 | 07 | 07 | 68 | 06 | 00 | 4221 | -97 | 47 | 05 | 33 | | | | 9 | 9 |
| 060 | 50 | 04 | 145 | 05 | 07 | 07 | 68 | 09 | 00 | 4221 | -97 | 51 | 07 | 34 | | | | 9 | 9 |
| 061 | 50 | 05 | 145 | 07 | 07 | 07 | 68 | 12 | 00 | 4221 | -97 | 51 | 09 | 34 | | | | 9 | 9 |
| 062 | 50 | 02 | 145 | 09 | 07 | 07 | 68 | 15 | 00 | 4221 | -96 | 45 | 07 | 45 | | | | 6 | 8 |
| 063 | 50 | 00 | 145 | 04 | 07 | 07 | 68 | 18 | 00 | 4221 | -98 | 10 | 23 | 44 | | | | 6 | 8 |
| 064 | 50 | 00 | 144 | 58 | 07 | 07 | 68 | 21 | 00 | 4221 | 01 | 20 | 29 | 34 | | | | 6 | 8 |
| 065 | 50 | 06 | 145 | 06 | 08 | 07 | 68 | 00 | 00 | 4221 | 03 | 02 | 27 | 34 | | | | 6 | 7 |
| 066 | 50 | 04 | 145 | 22 | 08 | 07 | 68 | 03 | 00 | 4221 | 05 | 01 | 26 | 34 | | | | 6 | 8 |
| 067 | 50 | 04 | 145 | 14 | 08 | 07 | 68 | 06 | 00 | 4221 | 06 | 02 | 27 | 34 | | | | 6 | 8 |
| 068 | 50 | 00 | 145 | 04 | 08 | 07 | 68 | 09 | 00 | 4221 | 08 | 02 | 18 | 33 | | | | 6 | 8 |
| 069 | 50 | 05 | 144 | 56 | 08 | 07 | 68 | 12 | 00 | 4221 | 09 | 02 | 18 | 23 | | | | 5 | 8 |
| 070 | 50 | 05 | 144 | 52 | 08 | 07 | 68 | 15 | 00 | 4221 | 09 | 02 | 18 | 23 | | | | 6 | 8 |
| 071 | 50 | 01 | 144 | 58 | 08 | 07 | 68 | 18 | 00 | 4221 | 09 | 02 | 12 | 22 | | | | 5 | 8 |
| 072 | 50 | 00 | 144 | 54 | 08 | 07 | 68 | 21 | 00 | 4221 | 09 | 51 | 08 | 22 | | | | 6 | 8 |
| 073 | 50 | 01 | 144 | 53 | 09 | 07 | 68 | 00 | 00 | 4221 | 09 | 47 | 09 | 22 | | | | 9 | 9 |
| 074 | 50 | 00 | 144 | 53 | 09 | 07 | 68 | 03 | 00 | 4221 | 08 | 45 | 07 | 22 | | | | 9 | 9 |
| 075 | 50 | 03 | 144 | 59 | 09 | 07 | 68 | 06 | 00 | 4221 | 06 | 45 | 10 | 22 | | | | 9 | 9 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 076 | 50 | 08 | 144 | 58 | 09 | 07 | 68 | 09 | 00 | 4221 | 05 | 02 | 14 | 22 | | | | 6 | 8 |
| 077 | 50 | 09 | 144 | 57 | 09 | 07 | 68 | 12 | 00 | 4221 | 04 | 51 | 09 | 22 | | | | 6 | 8 |
| 078 | 50 | 06 | 144 | 55 | 09 | 07 | 68 | 15 | 00 | 4221 | 03 | 02 | 10 | 02 | | | | 6 | 8 |
| 079 | 49 | 57 | 145 | 00 | 09 | 07 | 68 | 18 | 00 | 4221 | 03 | 61 | 12 | 21 | | | | 6 | 8 |
| 080 | 50 | 04 | 144 | 59 | 09 | 07 | 68 | 21 | 00 | 4221 | 02 | 61 | 11 | 21 | | | | 6 | 8 |
| 081 | 50 | 10 | 144 | 59 | 10 | 07 | 68 | 00 | 00 | 4221 | 01 | 61 | 06 | 22 | | | | 8 | 8 |
| 082 | 49 | 55 | 145 | 02 | 10 | 07 | 68 | 03 | 00 | 4221 | 02 | 01 | 06 | 22 | | | | 8 | 7 |
| 083 | 49 | 52 | 145 | 01 | 10 | 07 | 68 | 06 | 00 | 4221 | 03 | 01 | 06 | 22 | | | | 8 | 6 |
| 084 | 49 | 56 | 145 | 00 | 10 | 07 | 68 | 09 | 00 | 4221 | 04 | 02 | 09 | 22 | | | | 8 | 7 |
| 085 | 50 | 07 | 144 | 55 | 10 | 07 | 68 | 12 | 00 | 4221 | 05 | 02 | 17 | 22 | | | | 8 | 8 |
| 086 | 49 | 50 | 144 | 53 | 10 | 07 | 68 | 15 | 00 | 4221 | 05 | 02 | 22 | 22 | | | | 8 | 8 |
| 087 | 50 | 01 | 145 | 00 | 10 | 07 | 68 | 18 | 00 | 4221 | 06 | 02 | 26 | 22 | | | | 8 | 8 |
| 088 | 49 | 57 | 144 | 54 | 10 | 07 | 68 | 21 | 00 | 4221 | 07 | 02 | 25 | 22 | | | | 8 | 8 |
| 089 | 50 | 02 | 144 | 58 | 11 | 07 | 68 | 00 | 00 | 4221 | 07 | 02 | 25 | 22 | | | | 8 | 8 |
| 090 | 50 | 00 | 145 | 01 | 11 | 07 | 68 | 03 | 00 | 4221 | 09 | 02 | 15 | 22 | | | | 6 | 8 |
| 091 | 50 | 00 | 144 | 58 | 11 | 07 | 68 | 06 | 00 | 4221 | 09 | 02 | 15 | 22 | | | | 6 | 8 |
| 092 | 50 | 04 | 144 | 55 | 11 | 07 | 68 | 09 | 00 | 4221 | 10 | 02 | 15 | 22 | | | | 6 | 7 |
| 093 | 50 | 01 | 144 | 50 | 11 | 07 | 68 | 12 | 00 | 4221 | 09 | 02 | 12 | 21 | | | | 6 | 6 |
| 094 | 50 | 06 | 144 | 45 | 11 | 07 | 68 | 15 | 00 | 4221 | 10 | 01 | 07 | 11 | | | | 6 | 7 |
| 095 | 49 | 59 | 145 | 00 | 11 | 07 | 68 | 18 | 00 | 4221 | 10 | 01 | 05 | 11 | | | | 6 | 6 |
| 096 | 49 | 59 | 145 | 05 | 12 | 07 | 68 | 00 | 00 | 4221 | 09 | 02 | 06 | 11 | | | | 8 | 2 |
| 097 | 49 | 59 | 144 | 58 | 12 | 07 | 68 | 03 | 00 | 4221 | 10 | 02 | 08 | 11 | | | | 8 | 3 |
| 098 | 49 | 58 | 145 | 00 | 12 | 07 | 68 | 06 | 00 | 4221 | 09 | 03 | 06 | 22 | | | | 8 | 6 |
| 099 | 50 | 01 | 144 | 57 | 12 | 07 | 68 | 09 | 00 | 4221 | 09 | 02 | 13 | 32 | | | | 8 | 6 |
| 100 | 50 | 05 | 144 | 55 | 12 | 07 | 68 | 12 | 00 | 4221 | 08 | 02 | 10 | 22 | | | | 8 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 50 | 00 | 144 | 59 | 12 | 07 | 68 | 15 | 00 | 4221 | 06 | 51 | 14 | 22 | | | | 8 | 8 |
| 102 | 49 | 55 | 145 | 00 | 12 | 07 | 68 | 18 | 00 | 4221 | 04 | 51 | 16 | 22 | | | | 8 | 8 |
| 103 | 49 | 56 | 144 | 54 | 12 | 07 | 68 | 21 | 00 | 4221 | 04 | 01 | 14 | 22 | | | | 8 | 8 |
| 104 | 49 | 51 | 144 | 50 | 13 | 07 | 68 | 00 | 00 | 4221 | 05 | 01 | 12 | 22 | | | | 8 | 8 |
| 105 | 50 | 02 | 145 | 01 | 13 | 07 | 68 | 03 | 00 | 4221 | 05 | 01 | 12 | 22 | | | | 6 | 6 |
| 106 | 50 | 02 | 145 | 02 | 13 | 07 | 68 | 06 | 00 | 4221 | 03 | 02 | 18 | 22 | | | | 8 | 8 |
| 107 | 50 | 04 | 144 | 58 | 13 | 07 | 68 | 09 | 00 | 4221 | 03 | 61 | 16 | 22 | | | | 6 | 8 |
| 109 | 50 | 05 | 144 | 58 | 13 | 07 | 68 | 15 | 00 | 4221 | 02 | 02 | 16 | 22 | | | | 5 | 4 |
| 110 | 50 | 02 | 145 | 00 | 13 | 07 | 68 | 18 | 00 | 4221 | 03 | 03 | 20 | 22 | | | | 5 | 7 |
| 111 | 50 | 02 | 144 | 55 | 13 | 07 | 68 | 21 | 00 | 4221 | 04 | 51 | 20 | 22 | | | | 5 | 8 |
| 112 | 50 | 05 | 145 | 10 | 14 | 07 | 68 | 00 | 00 | 4221 | 06 | 02 | 21 | 22 | | | | 5 | 8 |
| 113 | 50 | 01 | 145 | 03 | 14 | 07 | 68 | 03 | 00 | 4221 | 09 | 02 | 16 | 22 | | | | 6 | 8 |
| 114 | 50 | 07 | 144 | 58 | 14 | 07 | 68 | 06 | 00 | 4221 | 11 | 02 | 12 | 11 | | | | 6 | 7 |
| 115 | 50 | 02 | 144 | 56 | 14 | 07 | 68 | 09 | 00 | 4221 | 12 | 02 | 10 | 11 | | | | 6 | 6 |
| 116 | 50 | 05 | 144 | 47 | 14 | 07 | 68 | 12 | 00 | 4221 | 14 | 02 | 10 | 11 | | | | 6 | 6 |
| 117 | 50 | 05 | 144 | 44 | 14 | 07 | 68 | 15 | 00 | 4221 | 14 | 02 | 13 | 11 | | | | 6 | 7 |
| 118 | 49 | 57 | 144 | 54 | 14 | 07 | 68 | 18 | 00 | 4221 | 14 | 02 | 12 | 11 | | | | 6 | 8 |
| 119 | 50 | 00 | 144 | 53 | 14 | 07 | 68 | 21 | 00 | 4221 | 16 | 02 | 10 | 11 | | | | 6 | 8 |
| 120 | 50 | 00 | 144 | 52 | 15 | 07 | 68 | 00 | 00 | 4221 | 17 | 02 | 05 | 11 | | | | 6 | 7 |
| 121 | 50 | 02 | 144 | 45 | 15 | 07 | 68 | 03 | 00 | 4221 | 17 | 02 | 09 | 11 | | | | 7 | 7 |
| 122 | 50 | 01 | 144 | 49 | 15 | 07 | 68 | 06 | 00 | 4221 | 18 | 02 | 08 | 11 | | | | 7 | 8 |
| 123 | 50 | 02 | 144 | 58 | 15 | 07 | 68 | 09 | 00 | 4221 | 18 | 02 | 10 | 11 | | | | 4 | 8 |
| 124 | 50 | 03 | 145 | 00 | 15 | 07 | 68 | 12 | 00 | 4221 | 18 | 02 | 11 | 11 | | | | 4 | 8 |
| 125 | 50 | 05 | 144 | 55 | 15 | 07 | 68 | 15 | 00 | 4221 | 18 | 02 | 13 | 11 | | | | 4 | 8 |
| 126 | 49 | 57 | 145 | 03 | 15 | 07 | 68 | 18 | 00 | 4221 | 18 | 51 | 09 | 11 | | | | 4 | 6 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 127 | 49 | 58 | 145 | 01 | 15 | 07 | 68 | 21 | 00 | 4221 | 18 | 01 | 08 | 11 | | | | 6 | 3 |
| 128 | 50 | 00 | 145 | 00 | 16 | 07 | 68 | 00 | 00 | 4221 | 19 | 02 | 06 | 11 | | | | 4 | 3 |
| 129 | 50 | 02 | 144 | 55 | 16 | 07 | 68 | 03 | 00 | 4221 | 19 | 02 | 07 | 11 | | | | 8 | 8 |
| 130 | 50 | 00 | 144 | 53 | 16 | 07 | 68 | 06 | 00 | 4221 | 19 | 02 | 08 | 11 | | | | 8 | 8 |
| 131 | 50 | 00 | 145 | 00 | 16 | 07 | 68 | 09 | 00 | 4221 | 19 | 02 | 08 | 11 | | | | 8 | 8 |
| 132 | 50 | 03 | 144 | 57 | 16 | 07 | 68 | 12 | 00 | 4221 | 20 | 51 | 08 | 11 | | | | 7 | 8 |
| 133 | 50 | 05 | 144 | 58 | 16 | 07 | 68 | 15 | 00 | 4221 | 20 | 02 | 08 | 11 | | | | 7 | 8 |
| 134 | 49 | 59 | 145 | 01 | 16 | 07 | 68 | 18 | 00 | 4221 | 21 | 02 | 11 | 11 | | | | 7 | 6 |
| 135 | 50 | 01 | 145 | 00 | 16 | 07 | 68 | 21 | 00 | 4221 | 22 | 15 | 04 | 11 | | | | 7 | 7 |
| 136 | 50 | 01 | 144 | 59 | 17 | 07 | 68 | 00 | 00 | 4221 | 23 | 02 | 10 | 11 | | | | 7 | 8 |
| 137 | 50 | 05 | 144 | 55 | 17 | 07 | 68 | 03 | 00 | 4221 | 23 | 02 | 10 | 11 | | | | | |
| 138 | 50 | 09 | 144 | 53 | 17 | 07 | 68 | 06 | 00 | 4221 | 22 | 02 | 12 | 11 | | | | 7 | 8 |
| 139 | 50 | 01 | 145 | 00 | 17 | 07 | 68 | 09 | 00 | 4221 | 23 | 02 | 08 | 11 | | | | 8 | 8 |
| 140 | 50 | 04 | 145 | 03 | 17 | 07 | 68 | 12 | 00 | 4221 | 24 | 02 | 08 | 11 | | | | 8 | 8 |
| 141 | 50 | 04 | 144 | 59 | 17 | 07 | 68 | 15 | 00 | 4221 | 24 | 02 | 09 | 11 | | | | 8 | 7 |
| 142 | 50 | 01 | 144 | 58 | 17 | 07 | 68 | 18 | 00 | 4221 | 24 | 02 | 10 | 11 | | | | 8 | 8 |
| 143 | 50 | 02 | 144 | 55 | 17 | 07 | 68 | 21 | 00 | 4221 | 25 | 53 | 13 | 11 | | | | 8 | 5 |
| 144 | 50 | 04 | 144 | 55 | 18 | 07 | 68 | 00 | 00 | 4221 | 25 | 20 | 10 | 11 | | | | 8 | 6 |
| 145 | 50 | 06 | 145 | 00 | 18 | 07 | 68 | 03 | 00 | 4221 | 25 | 02 | 08 | 11 | | | | 8 | 6 |
| 146 | 50 | 08 | 144 | 51 | 18 | 07 | 68 | 06 | 00 | 4221 | 25 | 02 | 04 | 11 | | | | 8 | 7 |
| 147 | 49 | 59 | 145 | 00 | 18 | 07 | 68 | 09 | 00 | 4221 | 25 | 02 | 05 | 11 | | | | 8 | 7 |
| 148 | 49 | 58 | 144 | 57 | 18 | 07 | 68 | 12 | 00 | 4221 | 26 | 02 | 04 | 11 | | | | 8 | 8 |
| 149 | 50 | 01 | 144 | 55 | 18 | 07 | 68 | 15 | 00 | 4221 | 26 | 50 | 04 | 11 | | | | 8 | 8 |
| 150 | 49 | 59 | 144 | 53 | 18 | 07 | 68 | 18 | 00 | 4221 | 25 | 50 | 00 | 11 | | | | 8 | 7 |
| 151 | 49 | 59 | 144 | 53 | 18 | 07 | 68 | 21 | 00 | 4221 | 26 | 02 | 04 | 11 | | | | 8 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 152 | 49 | 59 | 144 | 50 | 19 | 07 | 68 | 00 | 00 | 4221 | 27 | 02 | 04 | 11 | | | | 8 | 8 |
| 153 | 50 | 01 | 144 | 59 | 19 | 07 | 68 | 03 | 00 | 4221 | 27 | 02 | 06 | 11 | | | | 7 | 6 |
| 154 | 50 | 01 | 145 | 00 | 19 | 07 | 68 | 06 | 00 | 4221 | 27 | 02 | 05 | 11 | | | | 8 | 7 |
| 155 | 50 | 02 | 144 | 58 | 19 | 07 | 68 | 09 | 00 | 4221 | 27 | 02 | 08 | 11 | | | | 8 | 8 |
| 156 | 50 | 01 | 145 | 00 | 19 | 07 | 68 | 12 | 00 | 4221 | 27 | 02 | 11 | 11 | | | | 8 | 8 |
| 157 | 50 | 03 | 145 | 00 | 19 | 07 | 68 | 15 | 00 | 4221 | 25 | 02 | 08 | 11 | | | | 8 | 8 |
| 158 | 50 | 02 | 144 | 58 | 19 | 07 | 68 | 18 | 00 | 4221 | 25 | 61 | 10 | 11 | | | | 8 | 8 |
| 159 | 50 | 04 | 144 | 58 | 19 | 07 | 68 | 21 | 00 | 4221 | 25 | 61 | 06 | 11 | | | | 8 | 8 |
| 160 | 50 | 04 | 144 | 59 | 20 | 07 | 68 | 00 | 00 | 4221 | 24 | 80 | 08 | 11 | | | | 8 | 8 |
| 161 | 50 | 08 | 144 | 58 | 20 | 07 | 68 | 03 | 00 | 4221 | 23 | 02 | 10 | 11 | | | | 8 | 8 |
| 162 | 50 | 08 | 144 | 56 | 20 | 07 | 68 | 06 | 00 | 4221 | 23 | 02 | 08 | 11 | | | | 8 | 8 |
| 163 | 50 | 03 | 144 | 58 | 20 | 07 | 68 | 09 | 00 | 4221 | 23 | 02 | 08 | 11 | | | | 8 | 8 |
| 164 | 50 | 01 | 144 | 55 | 20 | 07 | 68 | 12 | 00 | 4221 | 23 | 02 | 12 | 11 | | | | 8 | 6 |
| 165 | 50 | 07 | 144 | 55 | 20 | 07 | 68 | 15 | 00 | 4221 | 23 | 02 | 14 | 11 | | | | 8 | 7 |
| 166 | 49 | 59 | 145 | 00 | 20 | 07 | 68 | 18 | 00 | 4221 | 24 | 20 | 10 | 11 | | | | 7 | 7 |
| 167 | 50 | 00 | 144 | 55 | 20 | 07 | 68 | 21 | 00 | 4221 | 24 | 02 | 14 | 11 | | | | 8 | 7 |
| 168 | 49 | 57 | 144 | 51 | 21 | 07 | 68 | 00 | 00 | 4221 | 25 | 02 | 12 | 11 | | | | 8 | 8 |
| 169 | 50 | 02 | 145 | 03 | 21 | 07 | 68 | 03 | 00 | 4221 | 24 | 02 | 08 | 11 | | | | 8 | 8 |
| 170 | 50 | 05 | 145 | 00 | 21 | 07 | 68 | 06 | 00 | 4221 | 24 | 51 | 10 | 22 | | | | 8 | 8 |
| 171 | 50 | 05 | 145 | 00 | 21 | 07 | 68 | 09 | 00 | 4221 | 23 | 61 | 11 | 22 | | | | 8 | 8 |
| 172 | 50 | 05 | 145 | 05 | 21 | 07 | 68 | 12 | 00 | 4221 | 22 | 61 | 17 | 22 | | | | 8 | 8 |
| 173 | 50 | 05 | 145 | 02 | 21 | 07 | 68 | 15 | 00 | 4221 | 21 | 61 | 17 | 22 | | | | 8 | 8 |
| 174 | 49 | 58 | 145 | 00 | 21 | 07 | 68 | 18 | 00 | 4221 | 21 | 61 | 16 | 22 | | | | 8 | 8 |
| 175 | 50 | 04 | 145 | 02 | 21 | 07 | 68 | 21 | 00 | 4221 | 20 | 61 | 18 | 22 | | | | 8 | 8 |
| 176 | 50 | 03 | 145 | 02 | 22 | 07 | 68 | 00 | 00 | 4221 | 20 | 61 | 18 | 22 | | | | 8 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 50 | 04 | 145 | 05 | 22 | 07 | 68 | 03 | 00 | 4221 | 17 | 61 | 22 | 22 | | | | 8 | 8 |
| 178 | 50 | 02 | 145 | 01 | 22 | 07 | 68 | 06 | 00 | 4221 | 16 | 51 | 26 | 22 | | | | 8 | 8 |
| 179 | 49 | 53 | 145 | 00 | 22 | 07 | 68 | 12 | 00 | 4221 | 15 | 51 | 26 | 22 | | | | 8 | 8 |
| 180 | 50 | 07 | 144 | 58 | 22 | 07 | 68 | 15 | 00 | 4221 | 15 | 61 | 16 | 22 | | | | 8 | 8 |
| 181 | 49 | 59 | 145 | 00 | 22 | 07 | 68 | 18 | 00 | 4221 | 16 | 61 | 20 | 22 | | | | 7 | 8 |
| 182 | 50 | 03 | 145 | 01 | 22 | 07 | 68 | 21 | 00 | 4221 | 17 | 45 | 20 | 22 | | | | 9 | 9 |
| 183 | 49 | 59 | 145 | 03 | 23 | 07 | 68 | 00 | 00 | 4221 | 17 | 43 | 15 | 22 | | | | 9 | 9 |
| 184 | 50 | 02 | 145 | 02 | 23 | 07 | 68 | 03 | 00 | 4221 | 17 | 28 | 18 | 11 | | | | 7 | 8 |
| 185 | 49 | 59 | 144 | 58 | 23 | 07 | 68 | 06 | 00 | 4221 | 15 | 10 | 15 | 11 | | | | 7 | 8 |
| 186 | 50 | 03 | 145 | 00 | 23 | 07 | 68 | 09 | 00 | 4221 | 14 | 51 | 15 | 11 | | | | 7 | 9 |
| 187 | 50 | 08 | 145 | 02 | 23 | 07 | 68 | 12 | 00 | 4221 | 14 | 51 | 17 | 11 | | | | 7 | 9 |
| 188 | 50 | 06 | 145 | 01 | 23 | 07 | 68 | 15 | 00 | 4221 | 14 | 51 | 22 | 11 | | | | 8 | 8 |
| 189 | 49 | 57 | 145 | 00 | 23 | 07 | 68 | 18 | 00 | 4221 | 14 | 10 | 22 | 11 | | | | 8 | 7 |
| 190 | 50 | 00 | 144 | 55 | 23 | 07 | 68 | 21 | 00 | 4221 | 14 | 02 | 21 | 11 | | | | 7 | 8 |
| 191 | 49 | 57 | 144 | 52 | 24 | 07 | 68 | 00 | 00 | 4221 | 15 | 46 | 20 | 11 | | | | 8 | 8 |
| 192 | 49 | 59 | 144 | 51 | 24 | 07 | 68 | 03 | 00 | 4221 | 14 | 51 | 04 | 11 | | | | 8 | 8 |
| 193 | 50 | 00 | 144 | 59 | 24 | 07 | 68 | 06 | 00 | 4221 | 12 | 45 | 11 | 11 | | | | 9 | 9 |
| 194 | 50 | 03 | 144 | 59 | 24 | 07 | 68 | 09 | 00 | 4221 | 11 | 51 | 17 | 11 | | | | 9 | 9 |
| 195 | 49 | 59 | 144 | 58 | 24 | 07 | 68 | 12 | 00 | 4221 | 10 | 53 | 18 | 11 | | | | 9 | 9 |
| 196 | 50 | 03 | 145 | 53 | 24 | 07 | 68 | 15 | 00 | 4221 | 08 | 61 | 16 | 11 | | | | 9 | 9 |
| 197 | 49 | 59 | 144 | 55 | 24 | 07 | 68 | 18 | 00 | 4221 | 08 | 61 | 16 | 11 | | | | 9 | 9 |
| 198 | 50 | 01 | 144 | 51 | 24 | 07 | 68 | 21 | 00 | 4221 | 09 | 10 | 15 | 11 | | | | 8 | 8 |
| 199 | 50 | 02 | 144 | 48 | 25 | 07 | 68 | 00 | 00 | 4221 | 09 | 61 | 13 | 11 | | | | 8 | 8 |
| 200 | 50 | 07 | 144 | 46 | 25 | 07 | 68 | 03 | 00 | 4221 | 09 | 10 | 04 | 11 | | | | 7 | 8 |
| 201 | 50 | 00 | 144 | 58 | 25 | 07 | 68 | 06 | 00 | 4221 | 08 | 02 | 02 | 11 | | | | 7 | 8 |

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 202 | 49 | 58 | 144 | 57 | 25 | 07 | 68 | 09 | 00 | 4221 | 09 | 02 | 04 | 11 | | | | 6 | 8 |
| 203 | 50 | 03 | 144 | 54 | 25 | 07 | 68 | 12 | 00 | 4221 | 09 | 02 | 04 | 11 | | | | 5 | 8 |
| 204 | 50 | 01 | 144 | 53 | 25 | 07 | 68 | 15 | 00 | 4221 | 10 | 02 | 06 | 11 | | | | 5 | 8 |
| 205 | 50 | 02 | 144 | 51 | 25 | 07 | 68 | 18 | 00 | 4221 | 11 | 02 | 10 | 11 | | | | 6 | 8 |
| 206 | 50 | 06 | 144 | 45 | 25 | 07 | 68 | 21 | 00 | 4221 | 11 | 02 | 13 | 11 | | | | 6 | 8 |
| 207 | 50 | 03 | 144 | 55 | 26 | 07 | 68 | 00 | 00 | 4221 | 12 | 02 | 13 | 11 | | | | 6 | 8 |
| 208 | 50 | 05 | 144 | 59 | 26 | 07 | 68 | 03 | 00 | 4221 | 12 | 02 | 14 | 11 | | | | 6 | 8 |
| 209 | 50 | 02 | 145 | 00 | 26 | 07 | 68 | 06 | 00 | 4221 | 13 | 02 | 14 | 11 | | | | 6 | 8 |
| 210 | 50 | 03 | 144 | 55 | 26 | 07 | 68 | 09 | 00 | 4221 | 13 | 02 | 18 | 11 | | | | 6 | 8 |
| 211 | 50 | 03 | 144 | 53 | 26 | 07 | 68 | 12 | 00 | 4221 | 14 | 02 | 14 | 11 | | | | 6 | 8 |
| 212 | 50 | 07 | 144 | 58 | 26 | 07 | 68 | 15 | 00 | 4221 | 13 | 02 | 17 | 11 | | | | 6 | 8 |
| 213 | 49 | 57 | 145 | 01 | 26 | 07 | 68 | 18 | 00 | 4221 | 14 | 02 | 18 | 11 | | | | 6 | 8 |
| 214 | 50 | 00 | 144 | 58 | 26 | 07 | 68 | 21 | 00 | 4221 | 14 | 02 | 18 | 11 | | | | 5 | 8 |
| 215 | 50 | 06 | 145 | 00 | 27 | 07 | 68 | 00 | 00 | 4221 | 13 | 02 | 16 | 11 | | | | 6 | 8 |
| 216 | 50 | 03 | 144 | 58 | 27 | 07 | 68 | 03 | 00 | 4221 | 13 | 81 | 23 | 22 | | | | 8 | 8 |
| 217 | 50 | 00 | 145 | 02 | 27 | 07 | 68 | 06 | 00 | 4221 | 13 | 61 | 23 | 22 | | | | 8 | 8 |
| 218 | 49 | 55 | 145 | 00 | 27 | 07 | 68 | 12 | 00 | 4221 | 12 | 61 | 23 | 22 | | | | 8 | 8 |
| 219 | 50 | 12 | 144 | 57 | 27 | 07 | 68 | 15 | 00 | 4221 | 12 | 21 | 26 | 22 | | | | 8 | 8 |
| 220 | 49 | 56 | 145 | 00 | 27 | 07 | 68 | 18 | 00 | 4221 | 13 | 02 | 21 | 22 | | | | 6 | 8 |
| 221 | 50 | 00 | 145 | 00 | 27 | 07 | 68 | 21 | 00 | 4221 | 15 | 02 | 20 | 11 | | | | 6 | 8 |
| 222 | 50 | 03 | 145 | 02 | 28 | 07 | 68 | 00 | 00 | 4221 | 16 | 02 | 19 | 11 | | | | 6 | 8 |
| 223 | 50 | 07 | 145 | 00 | 28 | 07 | 68 | 03 | 00 | 4221 | 17 | 02 | 14 | 22 | | | | 6 | 8 |
| 224 | 50 | 00 | 145 | 00 | 28 | 07 | 68 | 06 | 00 | 4221 | 18 | 02 | 14 | 22 | | | | 6 | 8 |
| 225 | 50 | 02 | 144 | 58 | 28 | 07 | 68 | 09 | 00 | 4221 | 20 | 02 | 11 | 32 | | | | 6 | 8 |
| 226 | 50 | 01 | 145 | 03 | 28 | 07 | 68 | 12 | 00 | 4221 | 21 | 02 | 13 | 22 | | | | 6 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 227 | 50 | 08 | 145 | 03 | 28 | 07 | 68 | 15 | 00 | 4221 | 21 | 02 | 11 | 22 | | | | 6 | 8 |
| 228 | 50 | 00 | 145 | 00 | 28 | 07 | 68 | 18 | 00 | 4221 | 22 | 02 | 10 | 22 | | | | 6 | 8 |
| 229 | 50 | 01 | 145 | 00 | 28 | 07 | 68 | 21 | 00 | 4221 | 23 | 02 | 10 | 11 | | | | 6 | 8 |
| 230 | 50 | 06 | 145 | 01 | 29 | 07 | 68 | 00 | 00 | 4221 | 23 | 02 | 14 | 11 | | | | 6 | 8 |
| 231 | 50 | 07 | 145 | 05 | 29 | 07 | 68 | 03 | 00 | 4221 | 22 | 47 | 22 | 11 | | | | 9 | 9 |
| 232 | 49 | 59 | 145 | 01 | 29 | 07 | 68 | 06 | 00 | 4221 | 21 | 45 | 18 | 11 | | | | 9 | 9 |
| 233 | 50 | 02 | 145 | 02 | 29 | 07 | 68 | 09 | 00 | 4221 | 22 | 43 | 15 | 11 | | | | 9 | 9 |
| 234 | 50 | 01 | 145 | 05 | 29 | 07 | 68 | 12 | 00 | 4221 | 22 | 51 | 17 | 11 | | | | 9 | 9 |
| 235 | 50 | 04 | 145 | 07 | 29 | 07 | 68 | 15 | 00 | 4221 | 23 | 45 | 13 | 11 | | | | 9 | 9 |
| 236 | 49 | 57 | 145 | 03 | 29 | 07 | 68 | 18 | 00 | 4221 | 23 | 61 | 17 | 11 | | | | 9 | 9 |
| 237 | 50 | 03 | 145 | 06 | 29 | 07 | 68 | 21 | 00 | 4221 | 24 | 43 | 16 | 11 | | | | 9 | 9 |
| 238 | 50 | 05 | 145 | 06 | 30 | 07 | 68 | 00 | 00 | 4221 | 25 | 21 | 11 | 11 | | | | 6 | 3 |
| 239 | 50 | 07 | 145 | 03 | 30 | 07 | 68 | 03 | 00 | 4221 | 25 | 21 | 15 | 11 | | | | 6 | 8 |
| 240 | 50 | 01 | 144 | 57 | 30 | 07 | 68 | 06 | 00 | 4221 | 26 | 20 | 15 | 11 | | | | 9 | 9 |
| 241 | 50 | 03 | 144 | 57 | 30 | 07 | 68 | 09 | 00 | 4221 | 26 | 22 | 16 | 11 | | | | 6 | 8 |
| 242 | 50 | 10 | 145 | 00 | 30 | 07 | 68 | 12 | 00 | 4221 | 26 | 22 | 17 | 11 | | | | 6 | 8 |
| 243 | 50 | 13 | 145 | 01 | 30 | 07 | 68 | 15 | 00 | 4221 | 26 | 22 | 12 | 11 | | | | 9 | 9 |
| 244 | 50 | 03 | 145 | 00 | 30 | 07 | 68 | 18 | 00 | 4221 | 27 | 23 | 12 | 11 | | | | 9 | 9 |
| 245 | 50 | 01 | 144 | 58 | 30 | 07 | 68 | 21 | 00 | 4221 | 28 | 23 | 10 | 11 | | | | 9 | 9 |
| 246 | 50 | 03 | 144 | 56 | 31 | 07 | 68 | 00 | 00 | 4221 | 27 | 28 | 10 | 11 | | | | 6 | 8 |
| 247 | 50 | 07 | 144 | 55 | 31 | 07 | 68 | 03 | 00 | 4221 | 27 | 02 | 07 | 11 | | | | 6 | 8 |
| 248 | 49 | 57 | 144 | 54 | 31 | 07 | 68 | 06 | 00 | 4221 | 27 | 02 | 10 | 11 | | | | 5 | 8 |
| 249 | 50 | 02 | 144 | 53 | 31 | 07 | 68 | 09 | 00 | 4221 | 25 | 02 | 16 | 11 | | | | 6 | 8 |
| 250 | 50 | 05 | 145 | 00 | 31 | 07 | 68 | 12 | 00 | 4221 | 25 | 20 | 17 | 11 | | | | 6 | 8 |
| 251 | 50 | 05 | 144 | 55 | 31 | 07 | 68 | 15 | 00 | 4221 | 24 | 45 | 12 | 11 | | | | 9 | 9 |

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 252 | 50 | 01 | 144 | 59 | 31 | 07 | 68 | 18 | 00 | 4221 | 24 | 51 | 15 | 11 | | | | 6 | 8 |
| 253 | 50 | 05 | 144 | 55 | 31 | 07 | 68 | 21 | 00 | 4221 | 25 | 45 | 12 | 11 | | | | 9 | 9 |
| 254 | 50 | 09 | 144 | 53 | 01 | 08 | 68 | 00 | 00 | 4221 | 25 | 02 | 14 | 11 | | | | 6 | 8 |
| 255 | 50 | 00 | 145 | 01 | 01 | 08 | 68 | 03 | 00 | 4221 | 25 | 10 | 17 | 11 | | | | 6 | 8 |
| 256 | 50 | 02 | 144 | 58 | 01 | 08 | 68 | 06 | 00 | 4221 | 25 | 02 | 15 | 11 | | | | 6 | 8 |
| 257 | 50 | 04 | 144 | 57 | 01 | 08 | 68 | 09 | 00 | 4221 | 26 | 51 | 12 | 11 | | | | 6 | 8 |
| 258 | 50 | 01 | 144 | 59 | 01 | 08 | 68 | 12 | 00 | 4221 | 27 | 20 | 13 | 11 | | | | 6 | 8 |
| 259 | 50 | 04 | 144 | 58 | 01 | 08 | 68 | 15 | 00 | 4221 | 27 | 51 | 10 | 11 | | | | 6 | 7 |
| 260 | 50 | 02 | 144 | 58 | 01 | 08 | 68 | 18 | 00 | 4221 | 28 | 02 | 06 | 11 | | | | 6 | 7 |
| 261 | 49 | 58 | 144 | 58 | 01 | 08 | 68 | 21 | 00 | 4221 | 28 | 02 | 04 | 11 | | | | 6 | 6 |
| 262 | 49 | 57 | 144 | 57 | 02 | 08 | 68 | 00 | 00 | 4221 | 28 | 02 | 04 | 00 | | | | 6 | 8 |
| 263 | 49 | 57 | 144 | 55 | 02 | 05 | 68 | 03 | 00 | 4221 | 27 | 02 | 03 | 00 | | | | 6 | 8 |
| 264 | 49 | 55 | 144 | 52 | 02 | 08 | 68 | 06 | 00 | 4221 | 28 | 02 | 00 | 00 | | | | 6 | 8 |
| 265 | 49 | 53 | 144 | 50 | 02 | 08 | 68 | 09 | 00 | 4221 | 28 | 02 | 00 | 00 | | 11 | | 6 | 8 |
| 266 | 50 | 00 | 144 | 54 | 02 | 08 | 68 | 12 | 00 | 4221 | 27 | 20 | 00 | 00 | | 11 | | 6 | 8 |
| 267 | 50 | 01 | 144 | 56 | 02 | 08 | 68 | 15 | 00 | 4221 | 28 | 51 | 03 | 00 | | 11 | | 6 | 8 |
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| 269 | 49 | 59 | 144 | 53 | 02 | 08 | 68 | 21 | 00 | 4221 | 28 | 02 | 05 | 00 | | 11 | | 6 | 8 |
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| 273 | 50 | 02 | 144 | 58 | 03 | 08 | 68 | 09 | 00 | 4221 | 28 | 51 | 09 | 00 | | 11 | | 5 | 8 |
| 274 | 49 | 58 | 144 | 58 | 03 | 08 | 68 | 12 | 00 | 4221 | 28 | 20 | 12 | 00 | | 11 | | 5 | 8 |
| 275 | 49 | 59 | 144 | 55 | 03 | 08 | 68 | 15 | 00 | 4221 | 29 | 02 | 10 | 00 | | 11 | | 5 | 6 |
| 276 | 49 | 51 | 144 | 52 | 03 | 08 | 68 | 18 | 00 | 4221 | 29 | 45 | 06 | 00 | | 11 | | 5 | 9 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | 49 | 47 | 144 | 46 | 03 | 08 | 68 | 21 | 00 | 4221 | 30 | 02 | 07 | 00 | | 11 | | 5 | 8 |
| 278 | 49 | 54 | 145 | 00 | 04 | 08 | 68 | 00 | 00 | 4221 | 31 | 02 | 08 | 00 | | 11 | | 5 | 8 |
| 279 | 49 | 57 | 145 | 00 | 04 | 05 | 68 | 03 | 00 | 4221 | 30 | 02 | 07 | 00 | | 11 | | 5 | 6 |
| 280 | 49 | 58 | 144 | 58 | 04 | 08 | 68 | 06 | 00 | 4221 | 31 | 51 | 08 | 00 | | 11 | | 6 | 8 |
| 281 | 49 | 58 | 144 | 53 | 04 | 08 | 68 | 09 | 00 | 4221 | 31 | 02 | 07 | 00 | | 11 | | 6 | 8 |
| 282 | 49 | 56 | 144 | 52 | 04 | 08 | 68 | 12 | 00 | 4221 | 31 | 02 | 12 | 00 | | 11 | | 6 | 8 |
| 283 | 49 | 50 | 144 | 50 | 04 | 08 | 68 | 15 | 00 | 4221 | 31 | 02 | 10 | 00 | | 11 | | 6 | 8 |
| 284 | 49 | 59 | 145 | 01 | 04 | 08 | 68 | 18 | 00 | 4221 | 31 | 02 | 08 | 00 | | 11 | | 6 | 6 |
| 285 | 49 | 57 | 145 | 00 | 04 | 08 | 68 | 21 | 00 | 4221 | 31 | 02 | 08 | 00 | | 11 | | 6 | 8 |
| 286 | 49 | 52 | 145 | 02 | 05 | 08 | 68 | 00 | 00 | 4221 | 31 | 02 | 13 | 00 | | 11 | | 6 | 8 |
| 287 | 49 | 55 | 144 | 55 | 05 | 08 | 68 | 15 | 00 | 4221 | 29 | 02 | 06 | 00 | | 11 | | 6 | 8 |
| 288 | 50 | 01 | 144 | 58 | 05 | 08 | 68 | 18 | 00 | 4221 | 29 | 02 | 06 | 00 | | 11 | | 6 | 8 |
| 289 | 49 | 58 | 144 | 56 | 05 | 08 | 68 | 21 | 00 | 4221 | 29 | 02 | 06 | 00 | | 11 | | 6 | 8 |
| 290 | 49 | 57 | 144 | 54 | 06 | 08 | 68 | 00 | 00 | 4221 | 27 | 02 | 10 | 00 | | 11 | | 6 | 8 |
| 291 | 49 | 56 | 144 | 53 | 06 | 08 | 68 | 03 | 00 | 4221 | 27 | 02 | 07 | 00 | | 11 | | 6 | 8 |
| 292 | 49 | 59 | 144 | 58 | 06 | 08 | 68 | 06 | 00 | 4221 | 26 | 02 | 11 | 00 | | 11 | | 6 | 8 |
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| 294 | 50 | 02 | 144 | 54 | 06 | 08 | 68 | 12 | 00 | 4221 | 26 | 02 | 12 | 00 | | 11 | | 6 | 8 |
| 295 | 50 | 00 | 144 | 55 | 06 | 08 | 68 | 15 | 00 | 4221 | 25 | 02 | 15 | 00 | | 11 | | 6 | 8 |
| 296 | 50 | 00 | 145 | 00 | 06 | 08 | 68 | 18 | 00 | 4221 | 24 | 51 | 13 | 00 | | 11 | | 6 | 8 |
| 297 | 50 | 01 | 145 | 01 | 06 | 08 | 68 | 21 | 00 | 4221 | 23 | 02 | 12 | 00 | | 11 | | 6 | 7 |
| 298 | 49 | 54 | 145 | 04 | 07 | 08 | 68 | 00 | 00 | 4221 | 24 | 02 | 09 | 00 | | 11 | | 6 | 7 |
| 299 | 49 | 53 | 145 | 03 | 27 | 08 | 68 | 03 | 00 | 4221 | 24 | 80 | 06 | 00 | | 11 | | 6 | 8 |
| 300 | 49 | 58 | 145 | 02 | 07 | 08 | 68 | 06 | 00 | 4221 | 24 | 02 | 04 | 00 | | 11 | | 6 | 8 |
| 301 | 49 | 59 | 145 | 00 | 07 | 08 | 68 | 09 | 00 | 4221 | 25 | 02 | 06 | 00 | | 11 | | 6 | 8 |

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 302 | 50 | 00 | 145 | 00 | 07 | 08 | 68 | 12 | 00 | 4221 | 26 | 01 | 02 | 00 | | 11 | | 6 | 5 |
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| 304 | 49 | 59 | 145 | 00 | 07 | 08 | 68 | 18 | 00 | 4221 | 26 | 02 | 00 | 00 | | 11 | | 6 | 6 |
| 305 | 49 | 57 | 145 | 02 | 07 | 08 | 68 | 21 | 00 | 4221 | 27 | 02 | 02 | 00 | | 11 | | 6 | 6 |
| 306 | 49 | 56 | 145 | 00 | 08 | 08 | 68 | 00 | 00 | 4221 | 27 | 02 | 05 | 00 | | 11 | | 6 | 8 |
| 307 | 49 | 54 | 145 | 00 | 08 | 08 | 68 | 03 | 00 | 4221 | 27 | 02 | 02 | 00 | | 11 | | 4 | 8 |
| 308 | 49 | 54 | 145 | 00 | 08 | 08 | 68 | 06 | 00 | 4221 | 27 | 02 | 04 | 00 | | 11 | | 4 | 7 |
| 309 | 49 | 57 | 145 | 00 | 08 | 08 | 68 | 09 | 00 | 4221 | 27 | 02 | 00 | 00 | | 11 | | 4 | 8 |
| 310 | 49 | 52 | 145 | 02 | 08 | 08 | 68 | 12 | 00 | 4221 | 27 | 02 | 08 | 00 | | 11 | | 4 | 8 |
| 311 | 49 | 57 | 145 | 04 | 09 | 08 | 68 | 15 | 00 | 4221 | 27 | 02 | 04 | 00 | | 11 | | 4 | 7 |
| 312 | 49 | 56 | 145 | 06 | 08 | 08 | 68 | 18 | 00 | 4221 | 26 | 02 | 10 | 00 | | 11 | | 4 | 3 |
| 313 | 49 | 58 | 145 | 07 | 08 | 08 | 68 | 21 | 00 | 4221 | 27 | 02 | 10 | 00 | | 11 | | 5 | 7 |
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| 315 | 49 | 57 | 145 | 13 | 09 | 08 | 68 | 03 | 00 | 4221 | 25 | 02 | 10 | 11 | | 11 | | 7 | 7 |
| 316 | 49 | 53 | 145 | 14 | 09 | 08 | 68 | 06 | 00 | 4221 | 25 | 02 | 10 | 11 | | 11 | | 7 | 7 |
| 317 | 49 | 58 | 145 | 15 | 09 | 08 | 68 | 09 | 00 | 4221 | 25 | 02 | 10 | 11 | | 11 | | 7 | 8 |
| 318 | 50 | 03 | 145 | 05 | 09 | 08 | 68 | 12 | 00 | 4221 | 24 | 02 | 10 | 11 | | 11 | | 7 | 7 |
| 319 | 49 | 58 | 145 | 04 | 09 | 08 | 68 | 15 | 00 | 4221 | 24 | 02 | 13 | 11 | | 11 | | 6 | 6 |
| 320 | 50 | 03 | 145 | 01 | 09 | 08 | 68 | 18 | 00 | 4221 | 23 | 02 | 14 | 11 | | 11 | | 6 | 6 |
| 321 | 50 | 04 | 145 | 06 | 09 | 08 | 68 | 21 | 00 | 4221 | 23 | 02 | 16 | 11 | | 11 | | 6 | 8 |
| 322 | 50 | 04 | 145 | 10 | 10 | 08 | 68 | 00 | 00 | 4221 | 22 | 02 | 17 | 22 | | 22 | | 6 | 7 |
| 323 | 50 | 06 | 145 | 07 | 10 | 08 | 68 | 03 | 00 | 4221 | 20 | 02 | 18 | 22 | | 22 | | 6 | 7 |
| 324 | 50 | 04 | 145 | 07 | 10 | 08 | 68 | 06 | 00 | 4221 | 20 | 02 | 22 | 32 | | 22 | | 6 | 7 |
| 325 | 50 | 00 | 145 | 04 | 10 | 08 | 68 | 09 | 00 | 4221 | 19 | 02 | 20 | 32 | | 22 | | 7 | 8 |
| 326 | 50 | 07 | 145 | 00 | 10 | 08 | 68 | 12 | 00 | 4221 | 17 | 61 | 24 | 32 | | 33 | | 7 | 8 |

TABLE 2

| CON No | LAT Deg | LAT Min | LONG Deg | LONG Min | DATE Day | DATE Mon | DATE Yr | GMT Hrs | GMT Min | DEPTH Metres | BAR Mbs | WW Code | WIND Amt | W-1 P | W-1 H | W-2 P | W-2 H | CLOUD T | CLOUD A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 327 | 50 | 02 | 144 | 55 | 11 | 08 | 68 | 00 | 00 | 4221 | 12 | 45 | 16 | 22 | | 22 | | 7 | 9 |
| 328 | 50 | 07 | 144 | 50 | 11 | 08 | 68 | 03 | 00 | 4221 | 12 | 02 | 10 | 22 | | 22 | | 6 | 8 |
| 329 | 50 | 04 | 144 | 54 | 11 | 08 | 68 | 06 | 00 | 4221 | 13 | 02 | 16 | 22 | | 22 | | 6 | 8 |
| 330 | 50 | 00 | 144 | 54 | 11 | 08 | 68 | 09 | 00 | 4221 | 13 | 02 | 12 | 22 | | 22 | | 6 | 8 |
| 331 | 50 | 00 | 144 | 50 | 11 | 08 | 68 | 12 | 00 | 4221 | 13 | 02 | 11 | 11 | | 22 | | 6 | 8 |
| 332 | 50 | 08 | 144 | 50 | 11 | 08 | 68 | 15 | 00 | 4221 | 14 | 02 | 11 | 11 | | 11 | | 6 | 8 |
| 333 | 50 | 07 | 144 | 48 | 11 | 08 | 68 | 18 | 00 | 4221 | 14 | 02 | 04 | 00 | | 11 | | 5 | 8 |
| 334 | 50 | 09 | 144 | 45 | 11 | 08 | 68 | 21 | 00 | 4221 | 14 | 61 | 04 | 00 | | 11 | | 5 | 8 |
| 335 | 50 | 01 | 144 | 48 | 12 | 08 | 68 | 00 | 00 | 4221 | 13 | 02 | 00 | 00 | | 11 | | 6 | 8 |
| 336 | 50 | 02 | 142 | 42 | 12 | 08 | 68 | 06 | 00 | 3910 | 14 | 02 | 03 | 00 | | 11 | | 6 | 8 |
| 337 | 49 | 45 | 141 | 40 | 12 | 08 | 68 | 11 | 15 | 3970 | 14 | 02 | 08 | 00 | | 11 | | 6 | 8 |
| 338 | 49 | 52 | 140 | 39 | 12 | 08 | 68 | 14 | 30 | 3881 | 14 | 02 | 12 | 00 | | 11 | | 6 | 8 |
| 340 | 49 | 38 | 139 | 40 | 12 | 08 | 68 | 18 | 00 | 3840 | 13 | 01 | 08 | 12 | | 12 | | 8 | 7 |
| 341 | 49 | 33 | 138 | 40 | 12 | 08 | 68 | 21 | 20 | 3890 | 13 | 02 | 00 | X0 | | 51 | | 8 | 6 |
| 342 | 49 | 30 | 137 | 40 | 13 | 08 | 68 | 00 | 25 | 3850 | 13 | 02 | 05 | X0 | | 51 | | 8 | 5 |
| 343 | 49 | 30 | 136 | 42 | 13 | 08 | 68 | 03 | 50 | 3775 | 12 | 02 | 08 | 11 | | 11 | | 6 | 3 |
| 344 | 49 | 22 | 135 | 40 | 13 | 08 | 68 | 07 | 20 | 3200 | 13 | 02 | 12 | 11 | | 11 | | 6 | 3 |
| 345 | 49 | 18 | 134 | 40 | 13 | 08 | 68 | 10 | 45 | 3550 | 13 | 02 | 12 | 11 | | 11 | | 6 | 3 |
| 346 | 49 | 13 | 133 | 40 | 13 | 08 | 68 | 14 | 00 | 3200 | 13 | 02 | 08 | 11 | | 11 | | 6 | 2 |
| 347 | 49 | 09 | 132 | 40 | 13 | 08 | 68 | 17 | 20 | 3275 | 14 | 02 | 12 | 11 | | 11 | | 6 | 2 |
| 348 | 49 | 04 | 131 | 40 | 13 | 08 | 68 | 21 | 00 | 2875 | 14 | 02 | 14 | 21 | | | | 8 | 3 |
| 349 | 49 | 00 | 130 | 40 | 14 | 08 | 68 | 00 | 05 | 2930 | 14 | 02 | 15 | 22 | | 11 | | 6 | 3 |
| 350 | 48 | 56 | 129 | 40 | 14 | 08 | 68 | 03 | 30 | 2601 | 13 | 02 | 18 | 22 | | 11 | | 6 | 4 |
| 351 | 48 | 51 | 128 | 40 | 14 | 08 | 68 | 07 | 12 | 2529 | 13 | 02 | 10 | 22 | | 11 | | 6 | 4 |
| 352 | 48 | 46 | 127 | 40 | 14 | 08 | 68 | 11 | 00 | 2500 | 11 | 02 | 20 | | | | | 6 | 4 |

TABLE 2

| CON No | LAT | | LONG | | DATE | | | GMT | | DEPTH | BAR | WW | WIND | W-1 | | W-2 | | CLOUD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Deg | Min | Deg | Min | Day | Mon | Yr | Hrs | Min | Metres | Mbs | Code | Amt | P | H | P | H | T | A |
| 353 | 48 | 42 | 126 | 40 | 14 | 08 | 68 | 14 | 00 | 1300 | 09 | 02 | 22 | 33 | | 22 | | 6 | 2 |
| 354 | 48 | 38 | 126 | 00 | 14 | 08 | 68 | 17 | 00 | 0110 | 10 | 02 | 12 | 33 | | 22 | | 6 | 2 |
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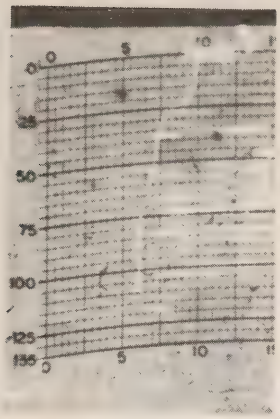

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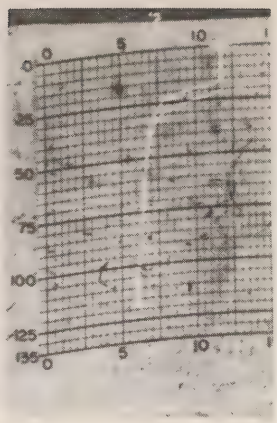

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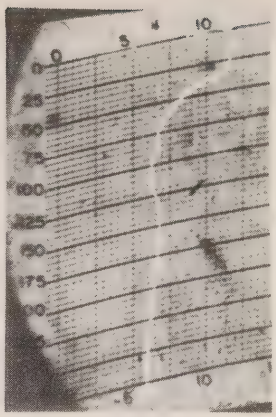

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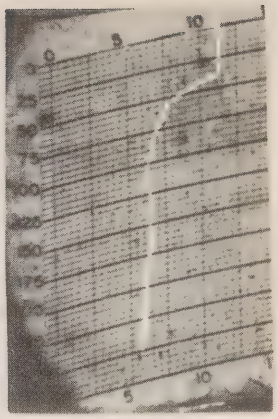

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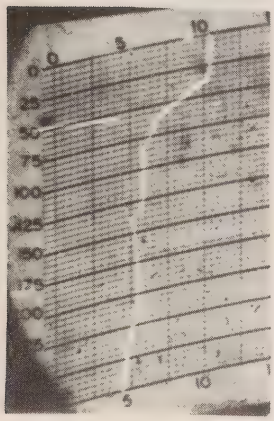

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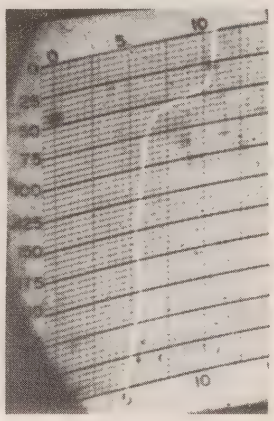

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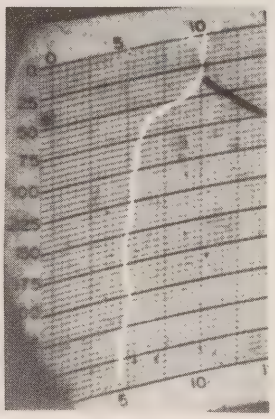

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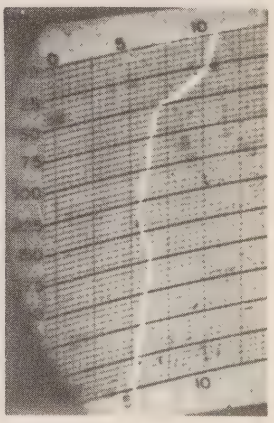

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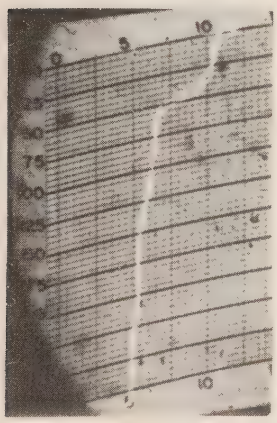

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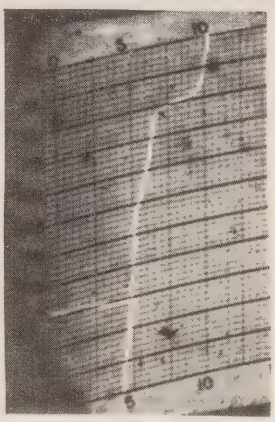

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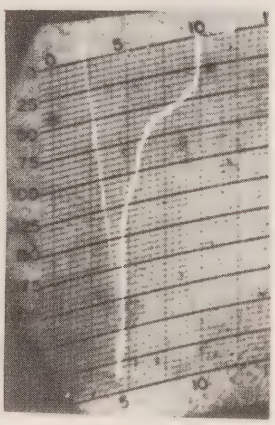

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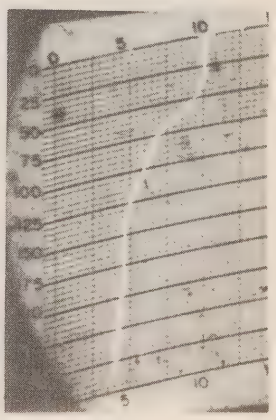

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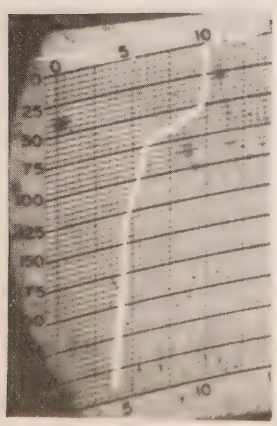

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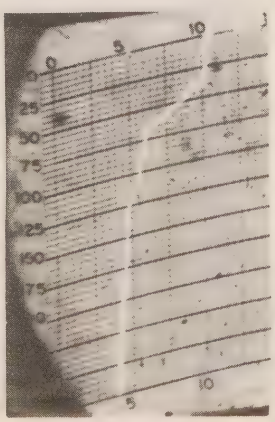

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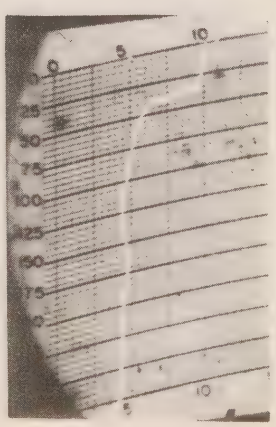

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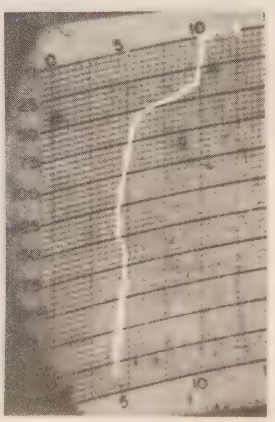

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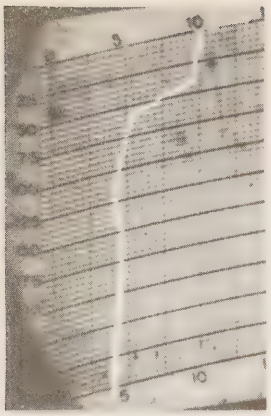

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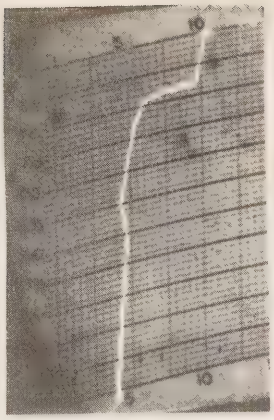

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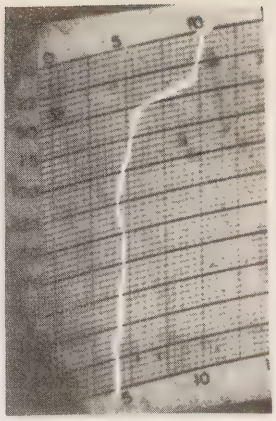

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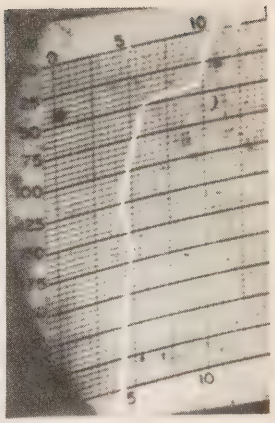

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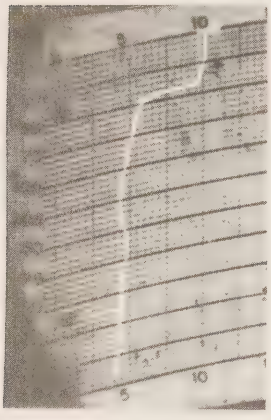

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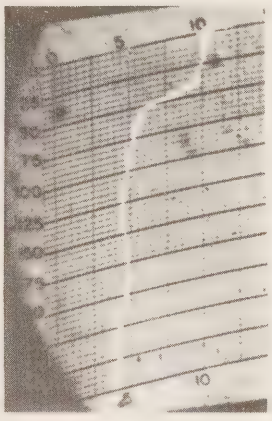

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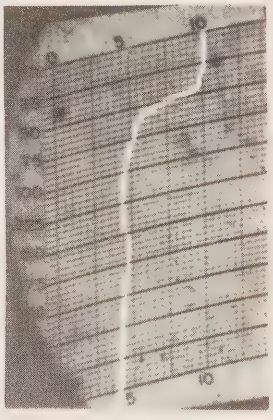

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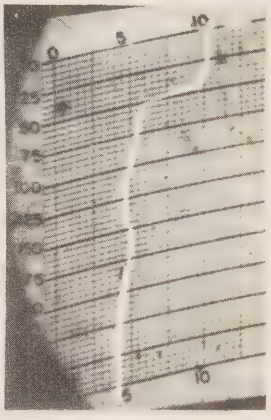

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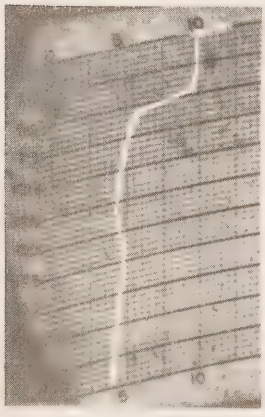

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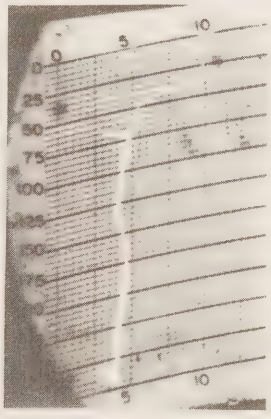

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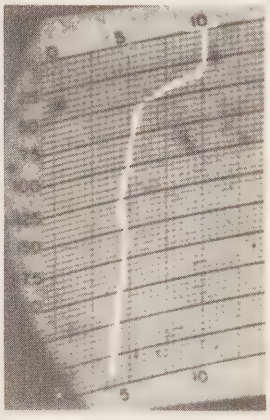

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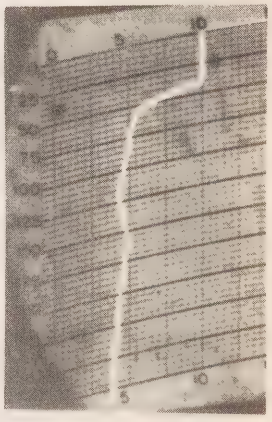

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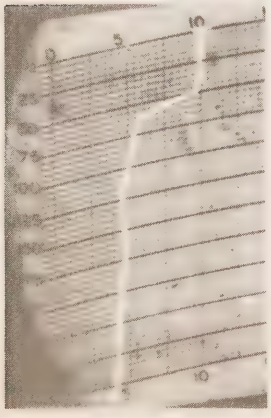

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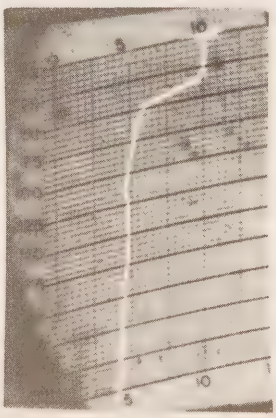

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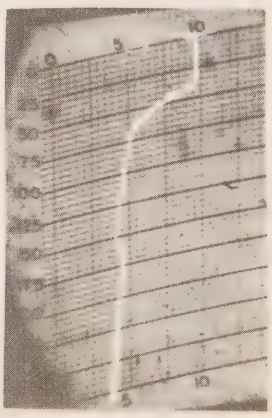

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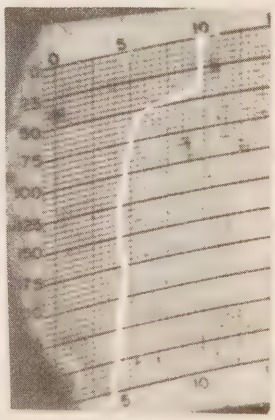

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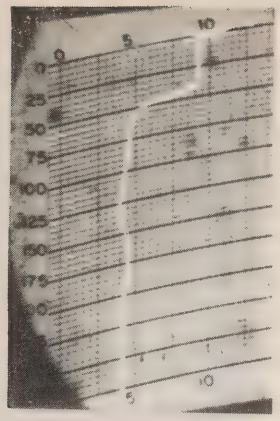

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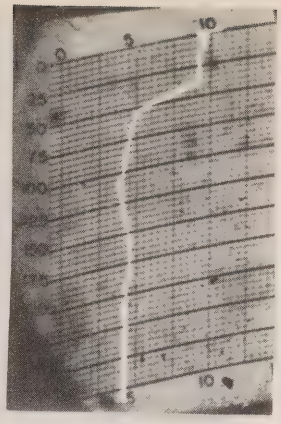

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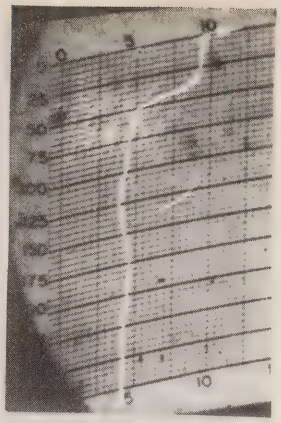

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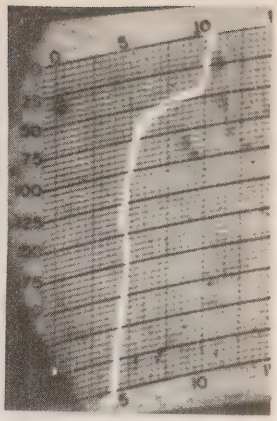

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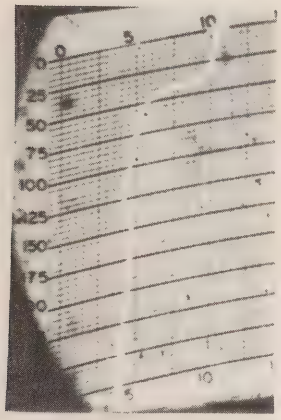

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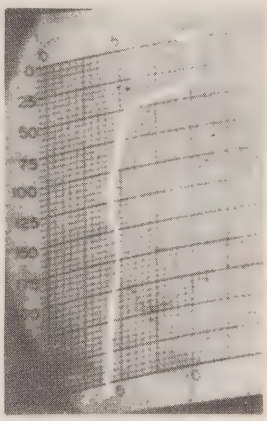

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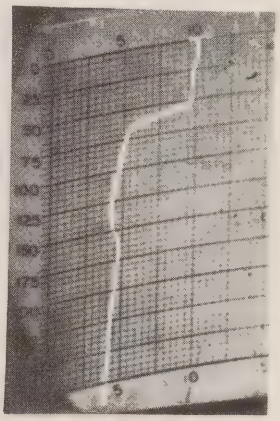

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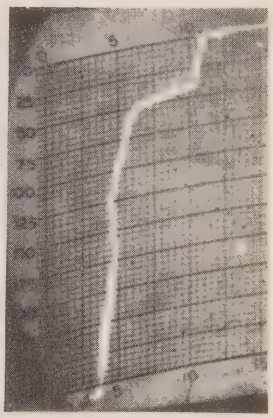

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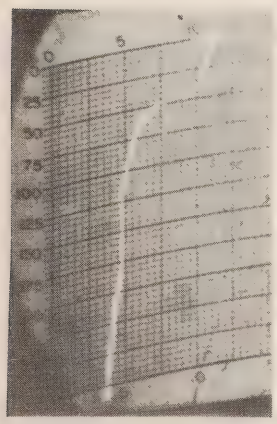

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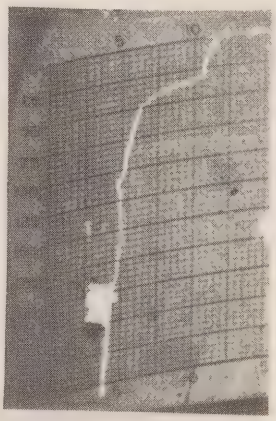

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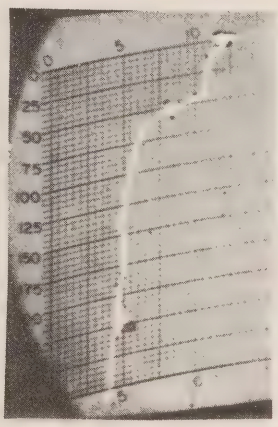

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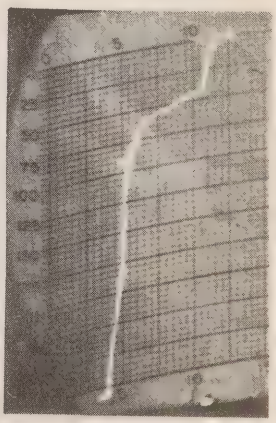

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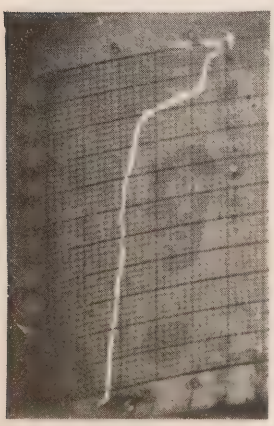

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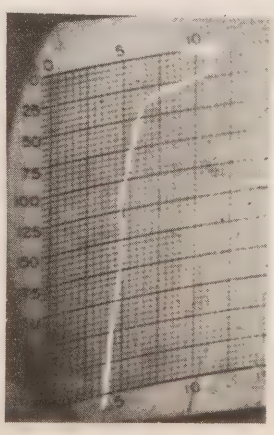

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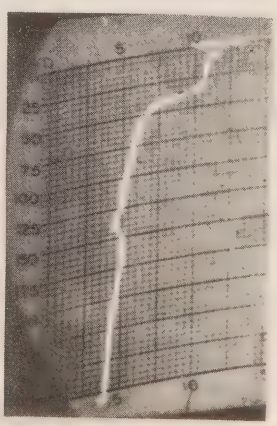

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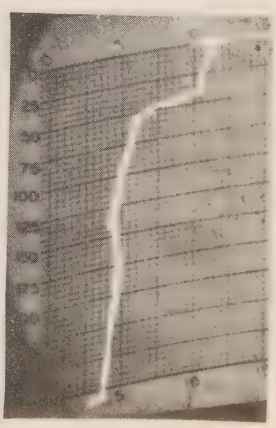

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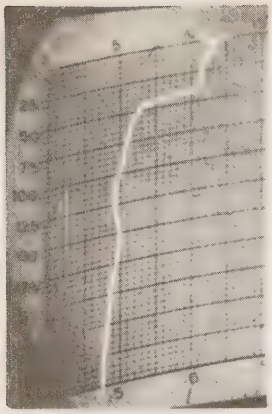

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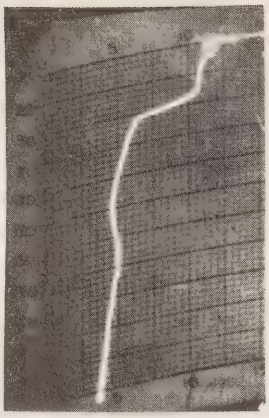

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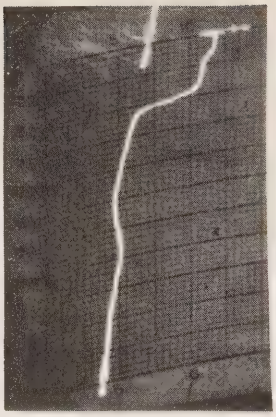

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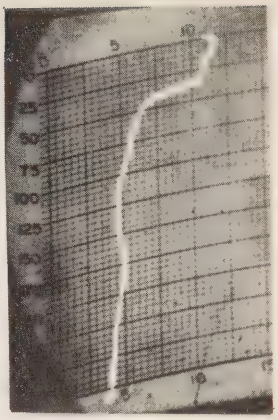

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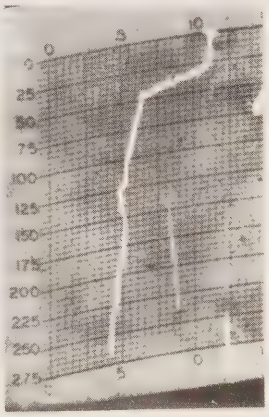

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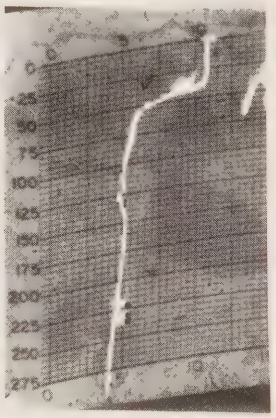

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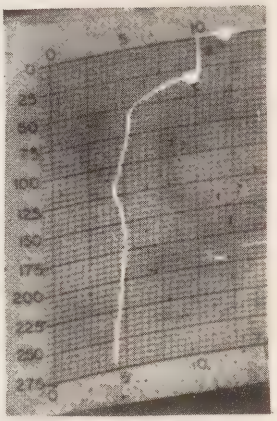

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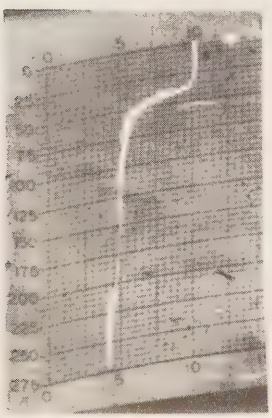

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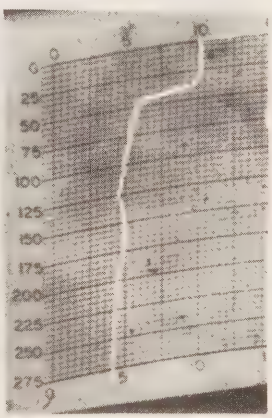

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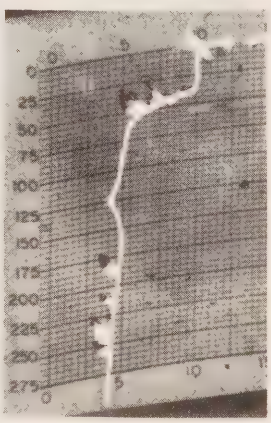

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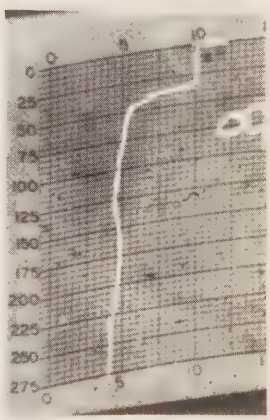

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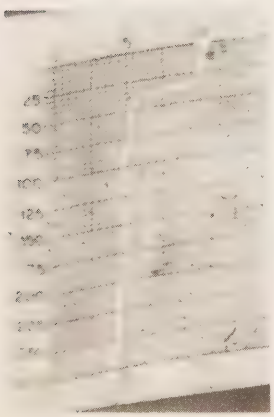

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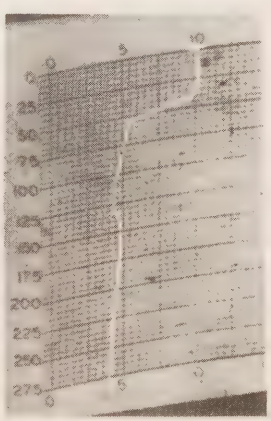

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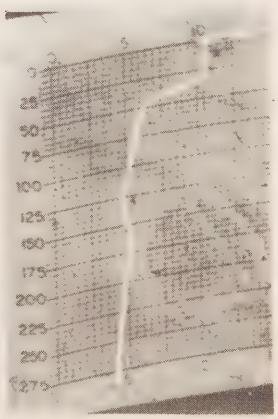

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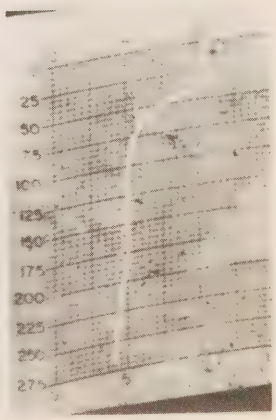

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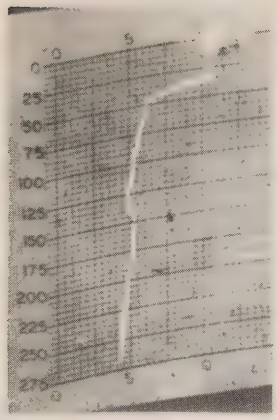

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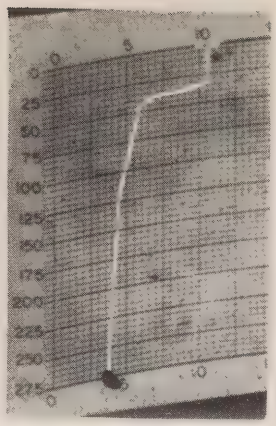

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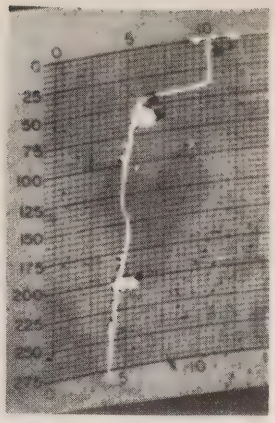

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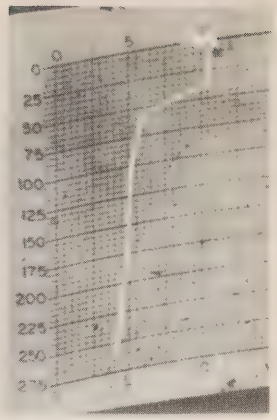

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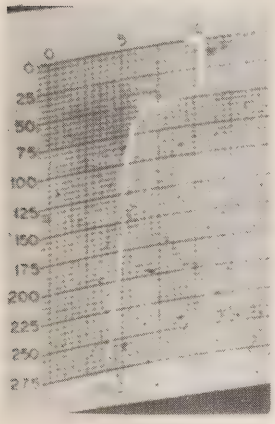

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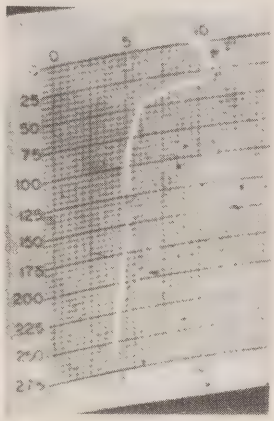

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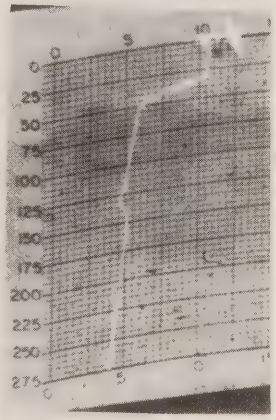

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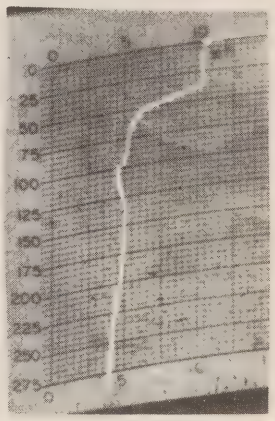

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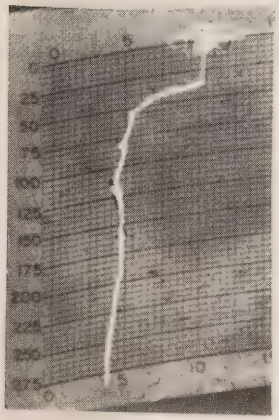

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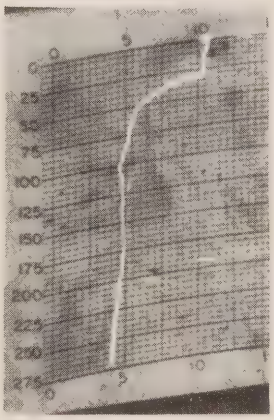

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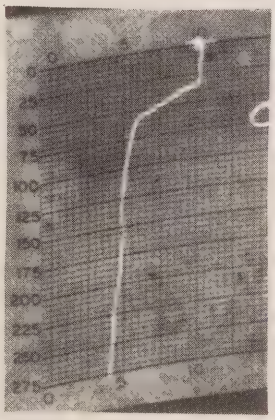

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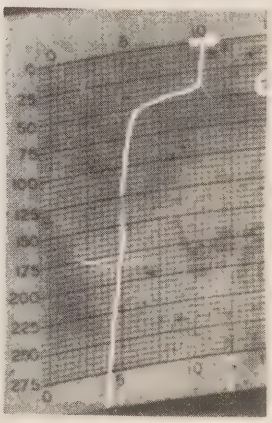

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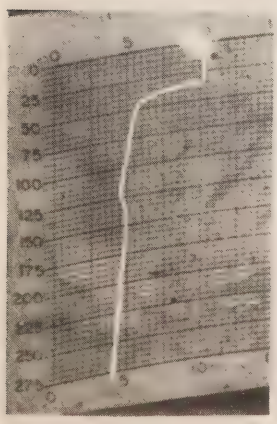

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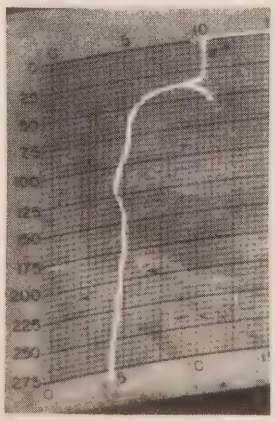

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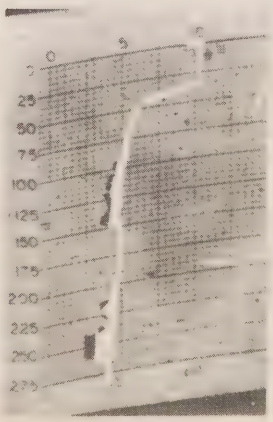

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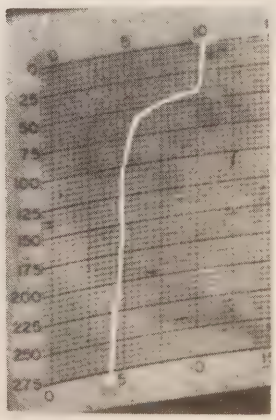

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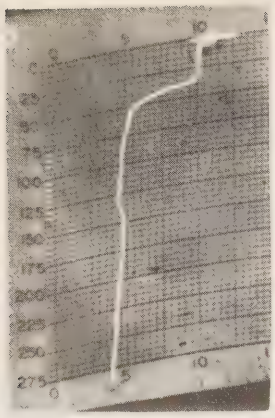

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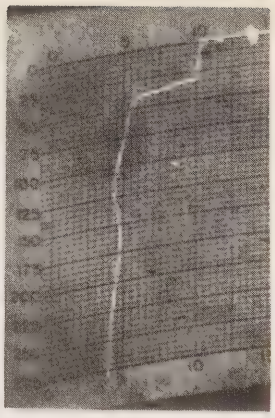

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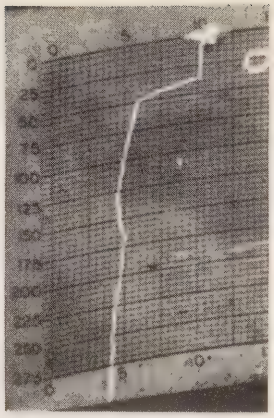

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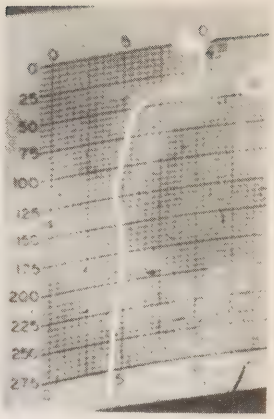

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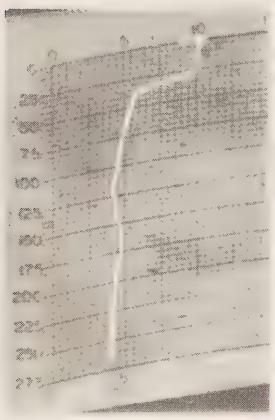

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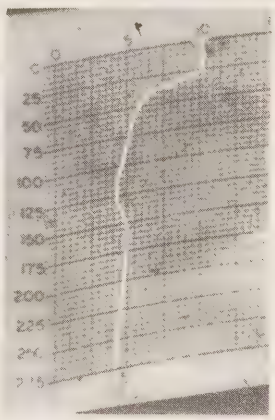

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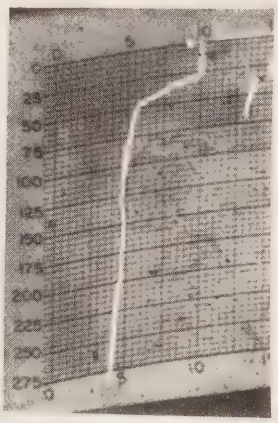

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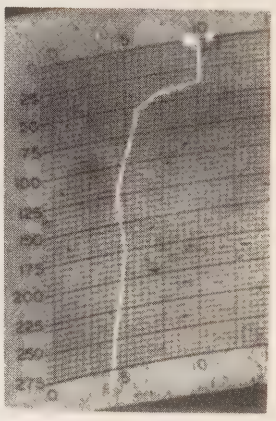

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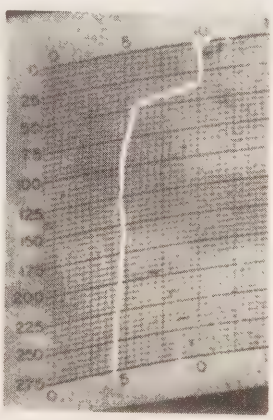

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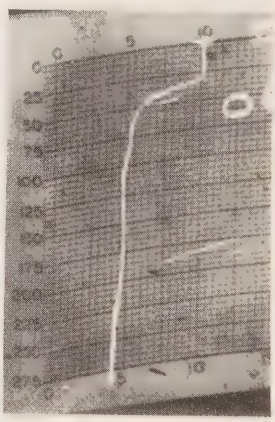

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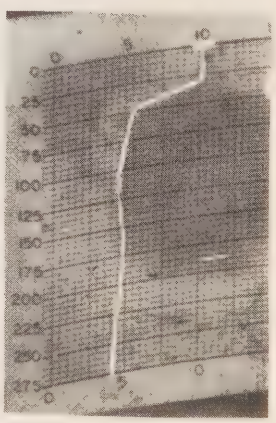

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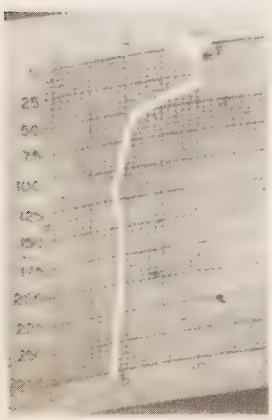

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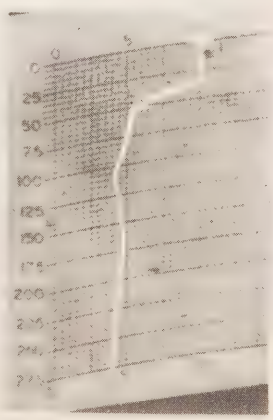

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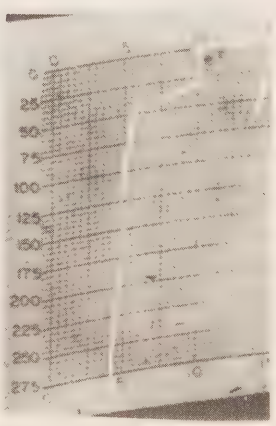

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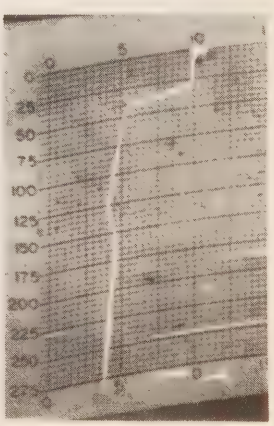

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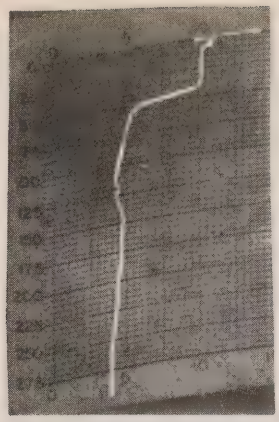

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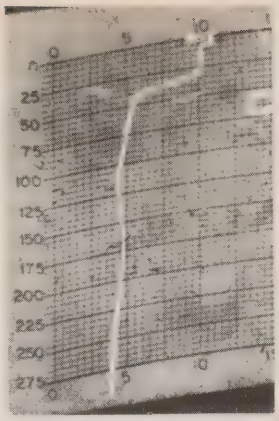

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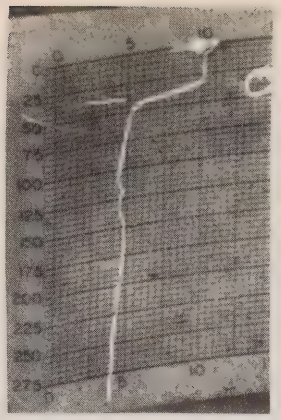

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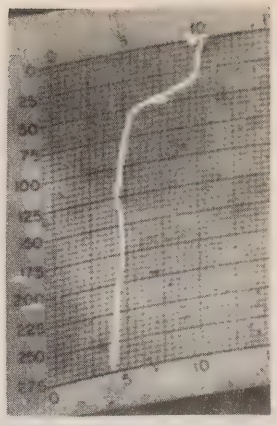

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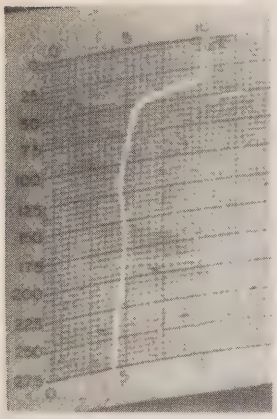

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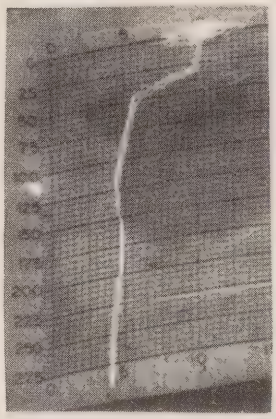

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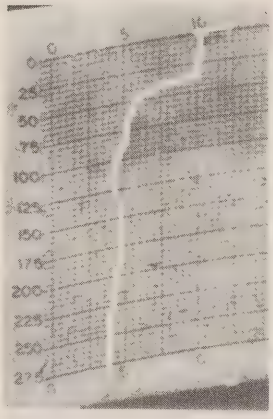

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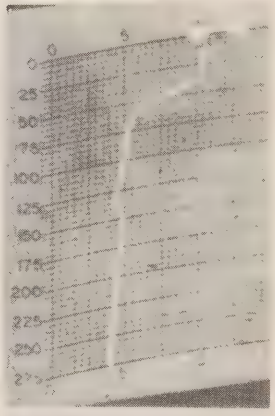

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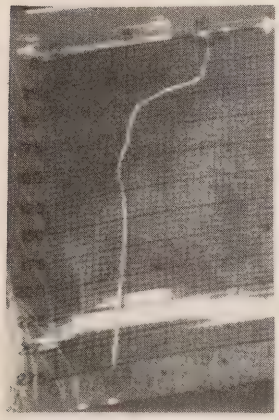

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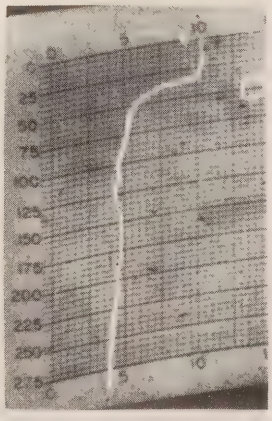

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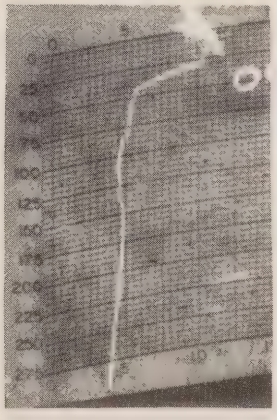

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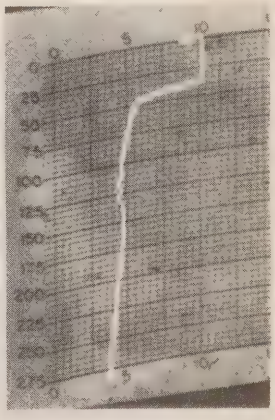

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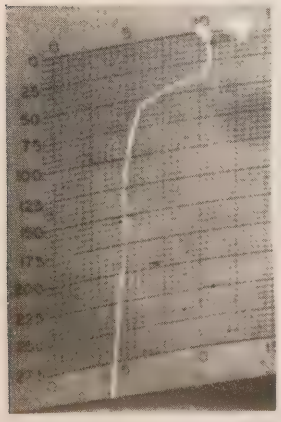

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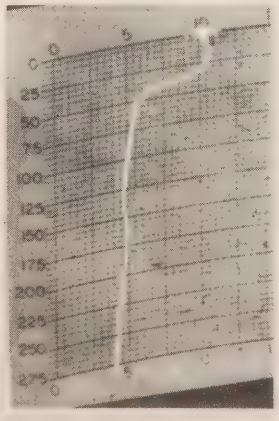

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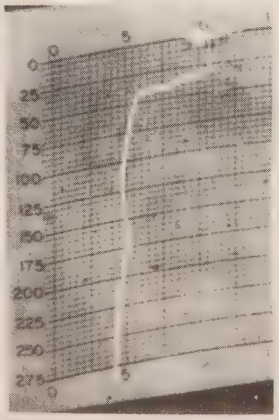

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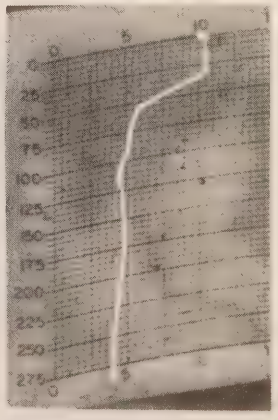

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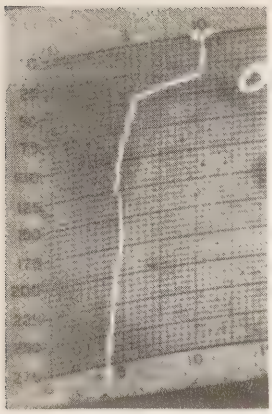

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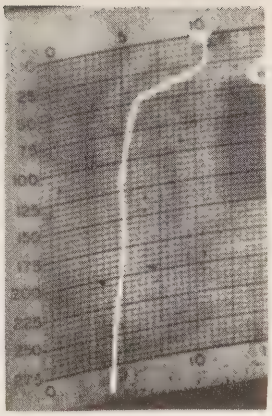

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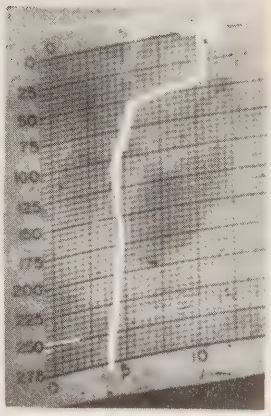

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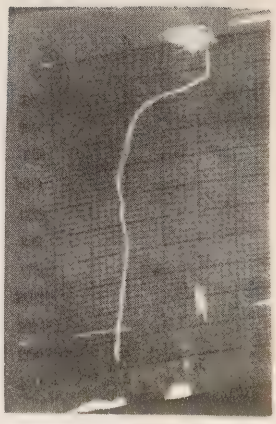

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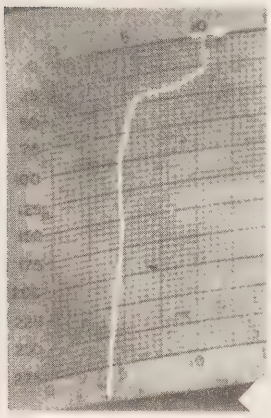

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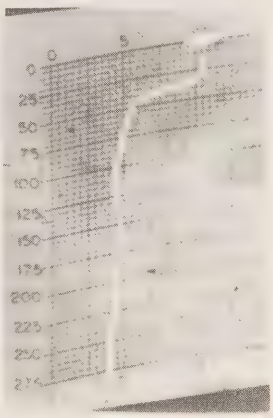

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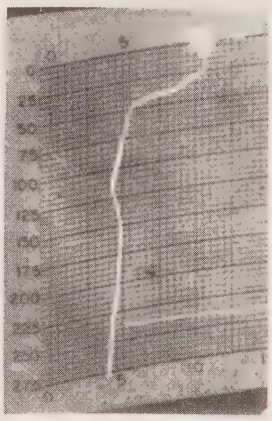

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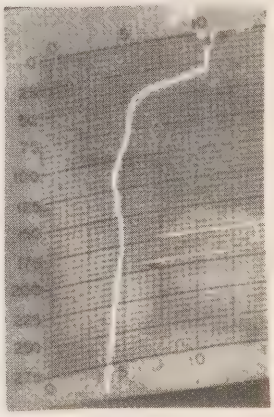

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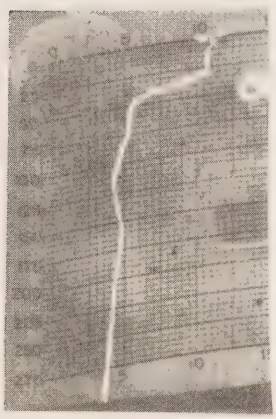

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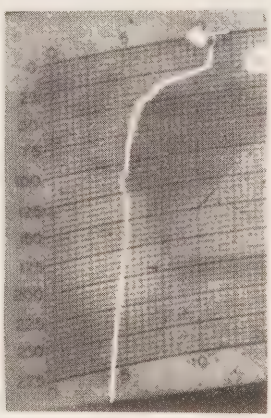

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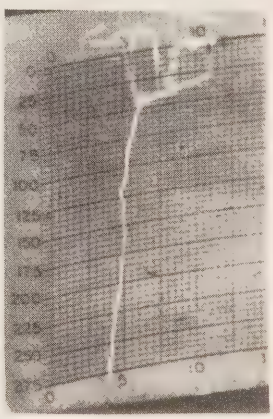

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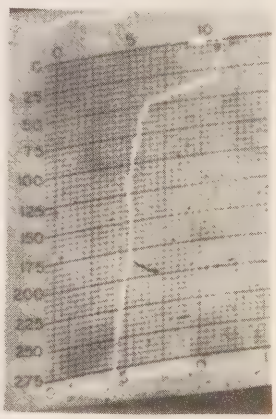

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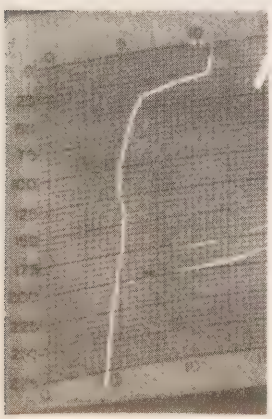

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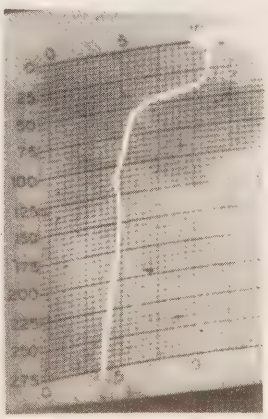

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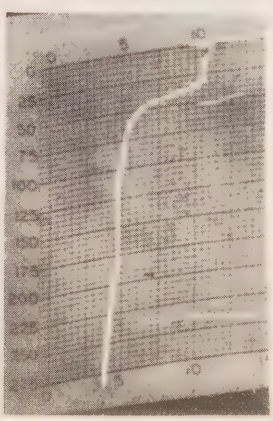

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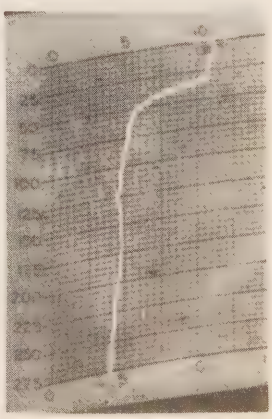

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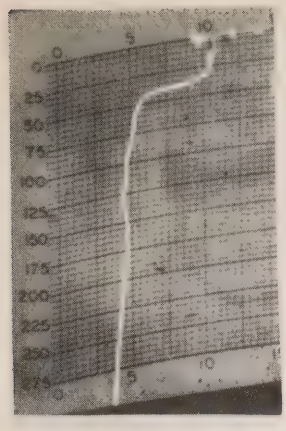

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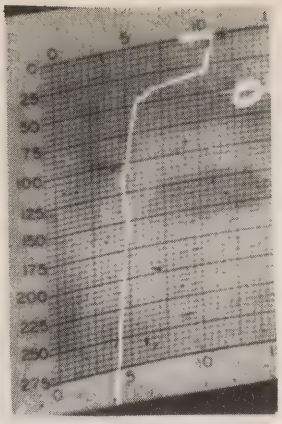

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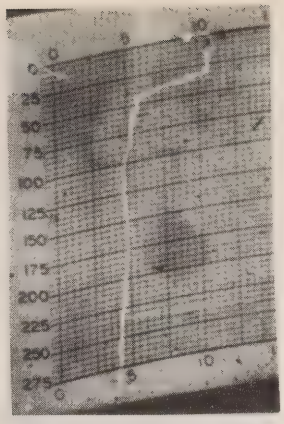

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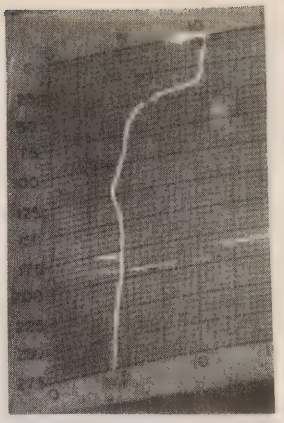

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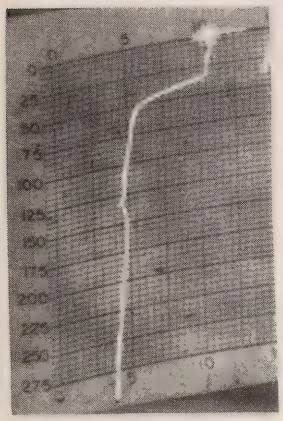

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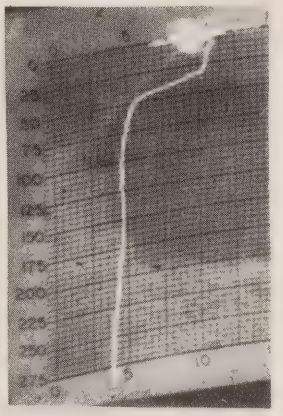

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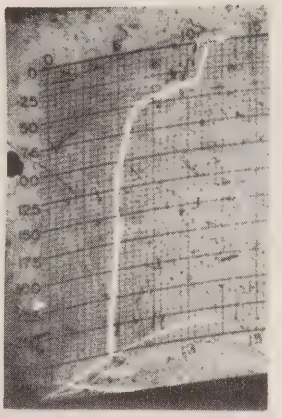

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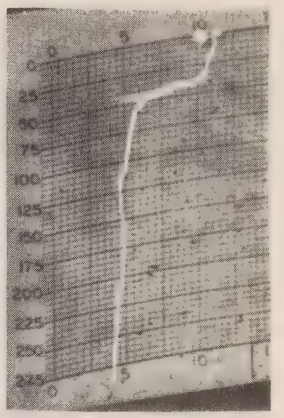

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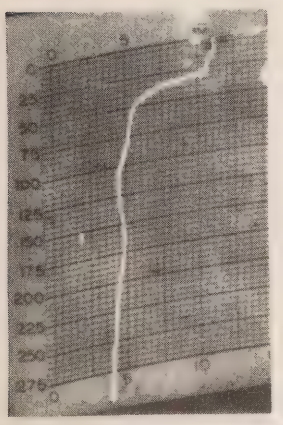

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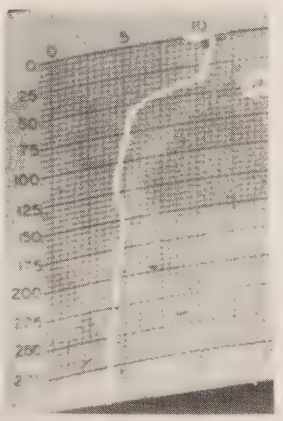

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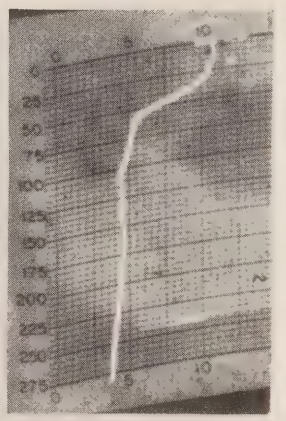

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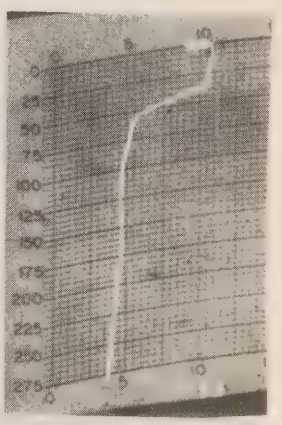

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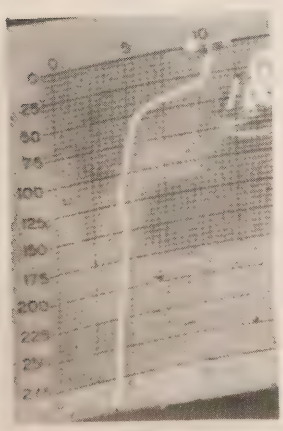

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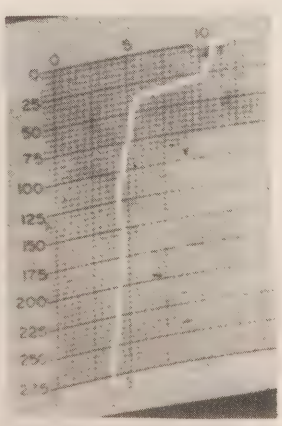

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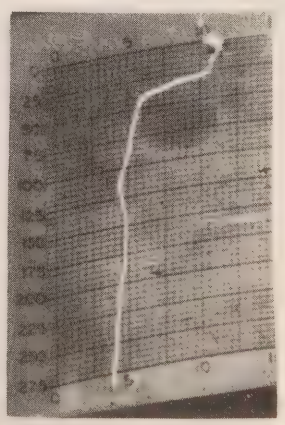

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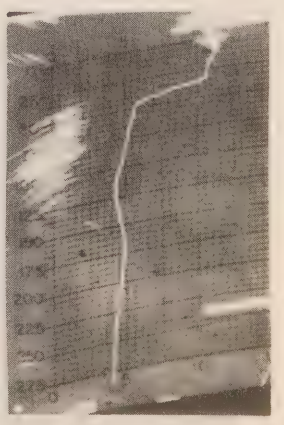

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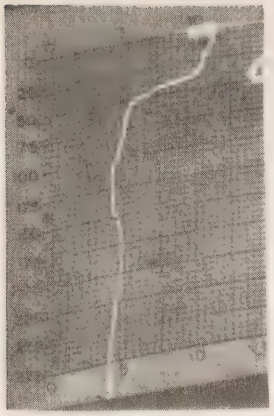

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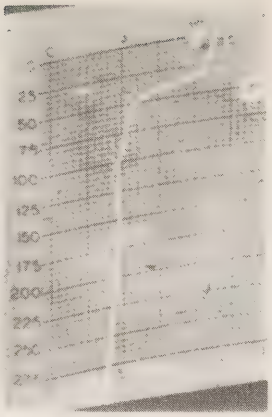

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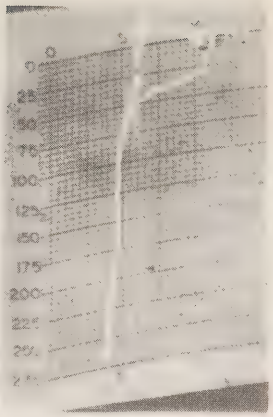

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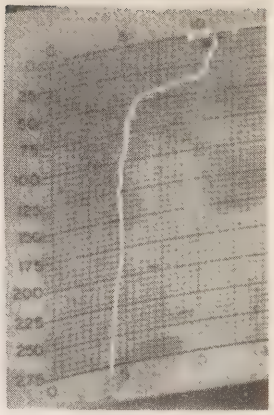

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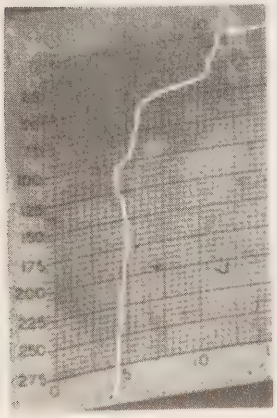

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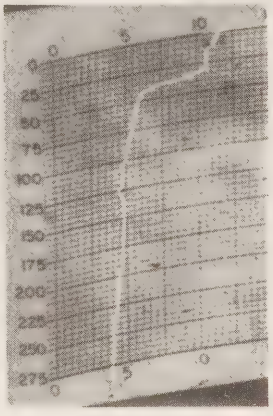

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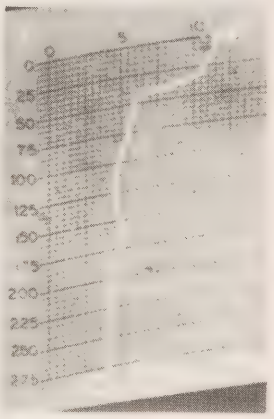

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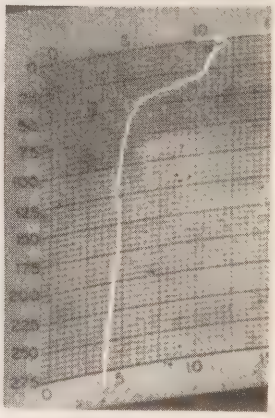

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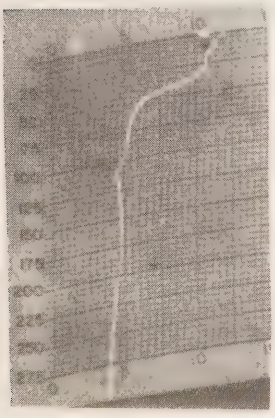

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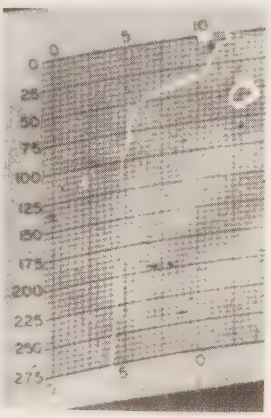

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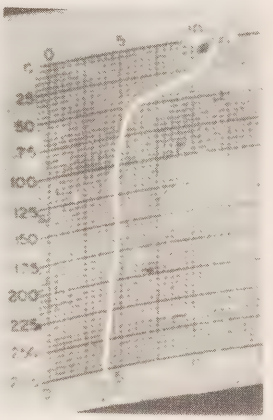

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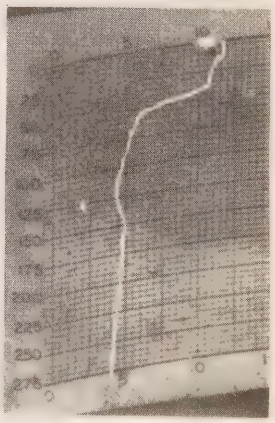

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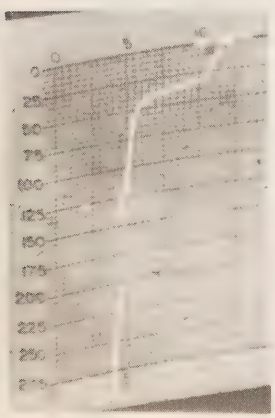

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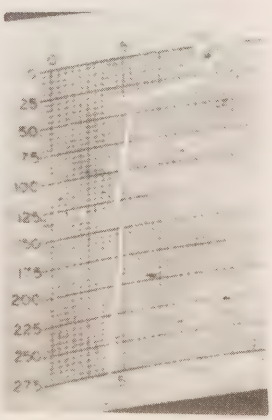

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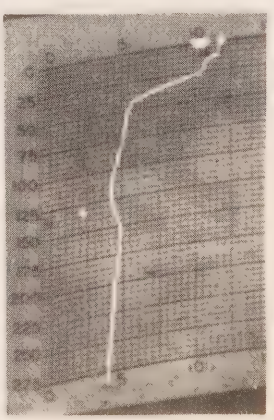

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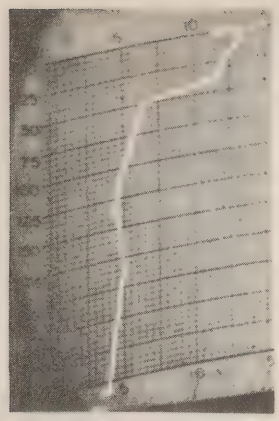

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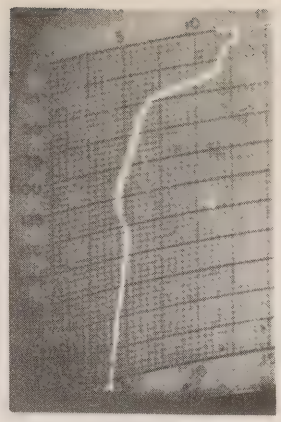

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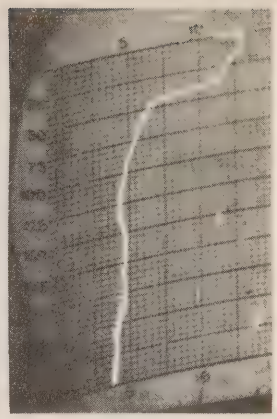

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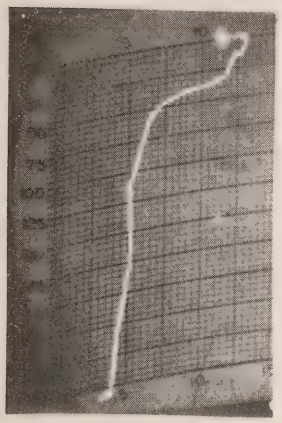

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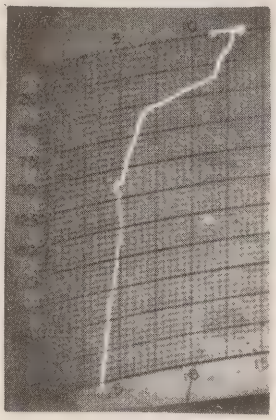

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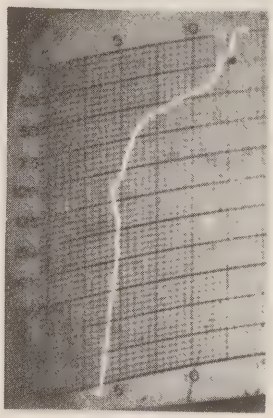

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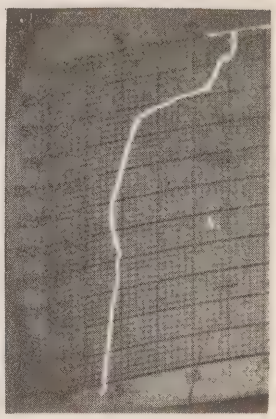

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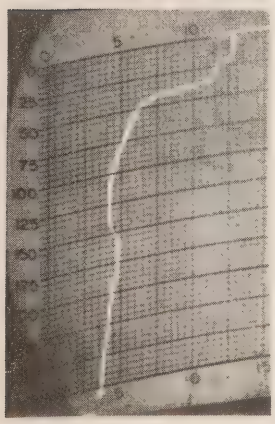

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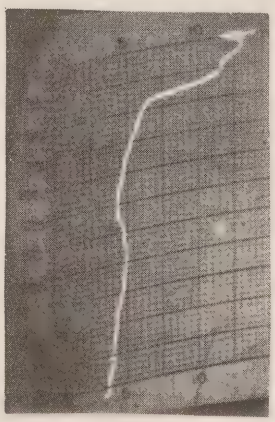

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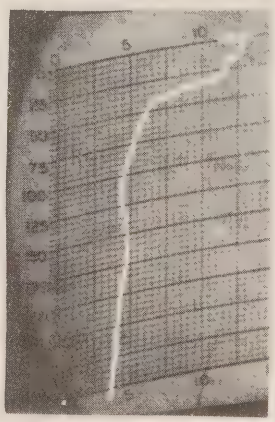

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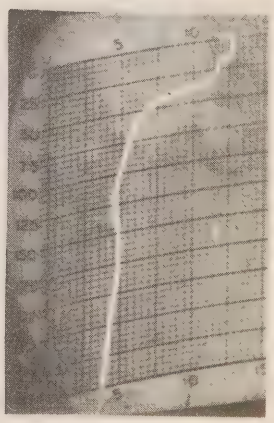

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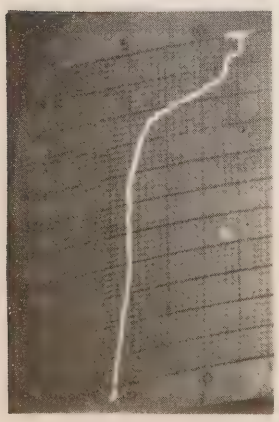

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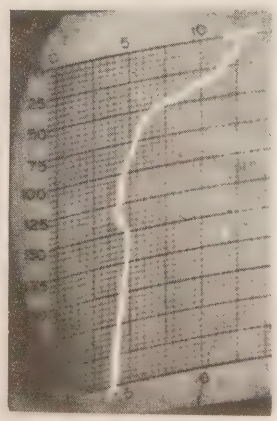

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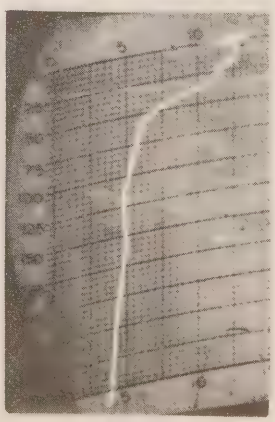

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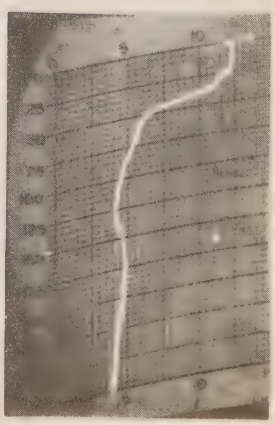

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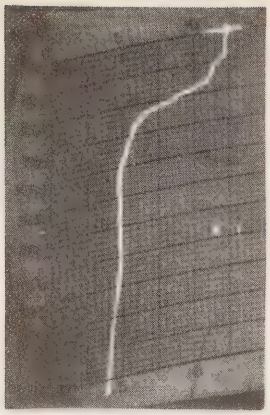

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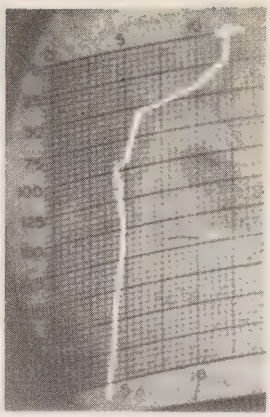

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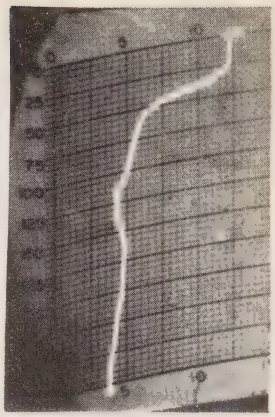

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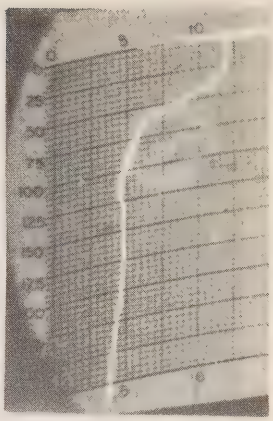

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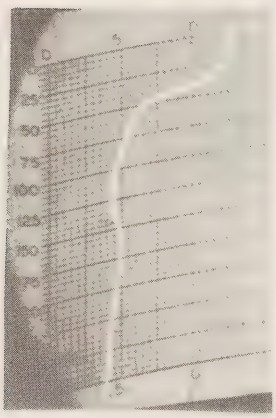

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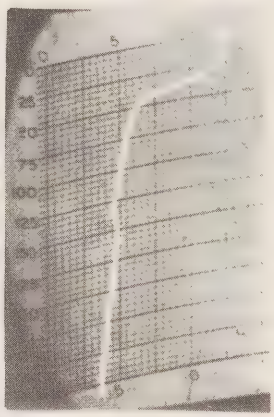

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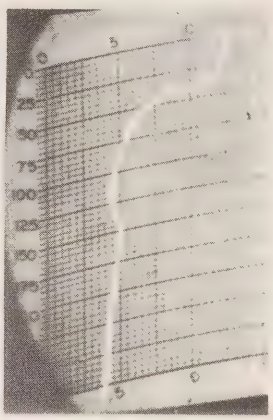

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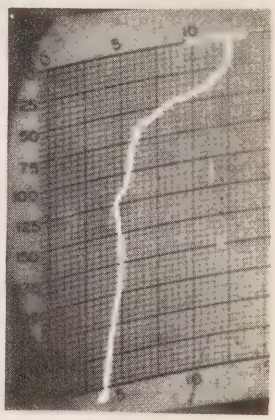

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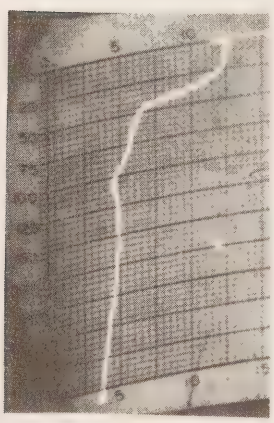

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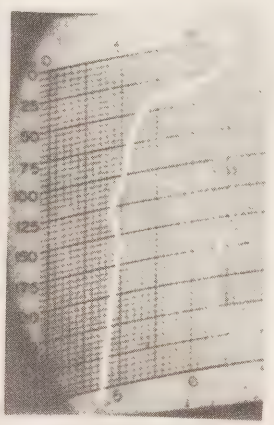

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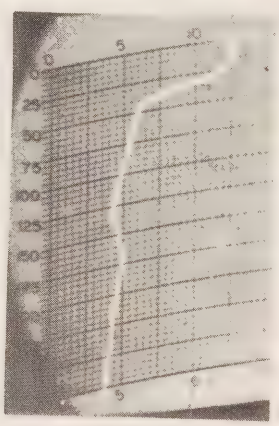

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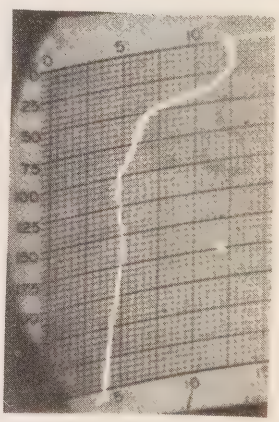

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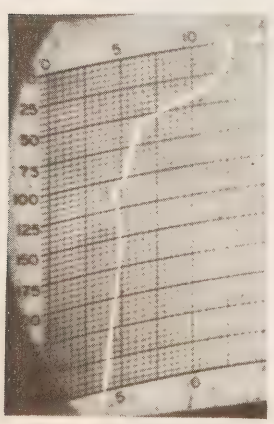

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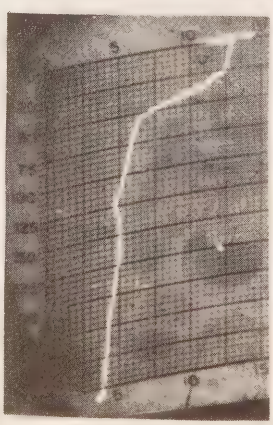

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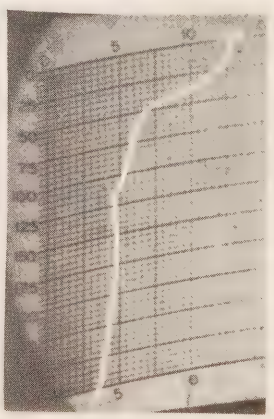

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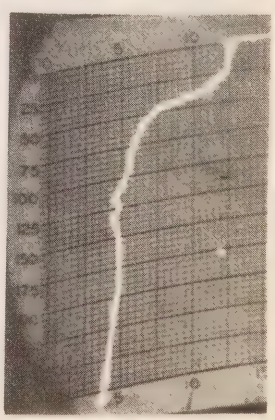

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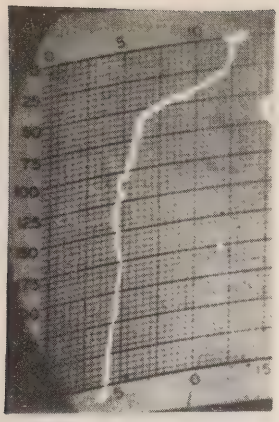

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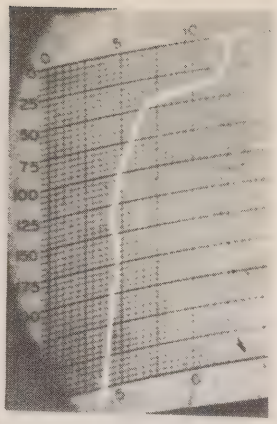

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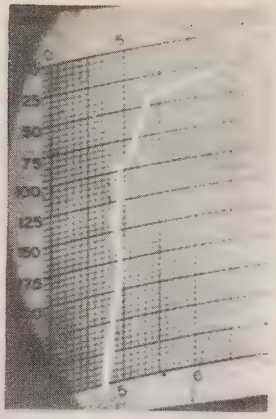

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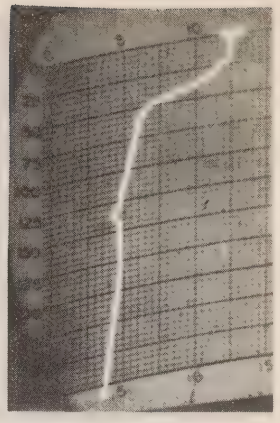

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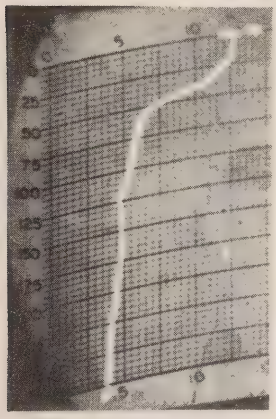

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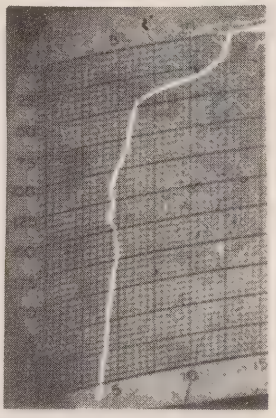

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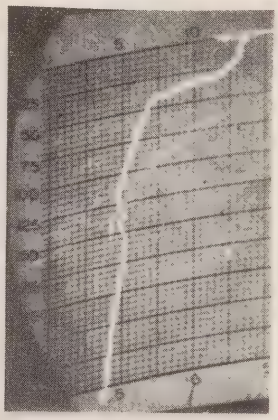

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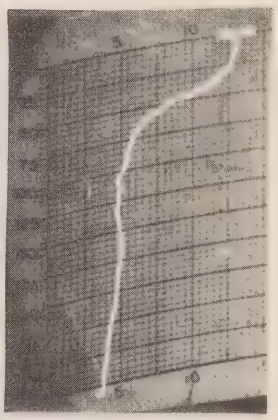

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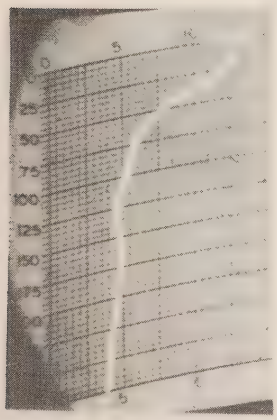

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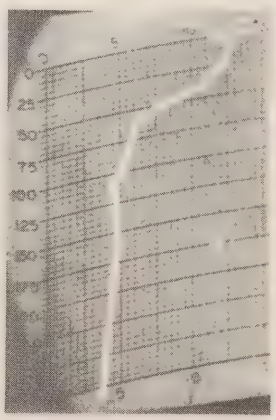

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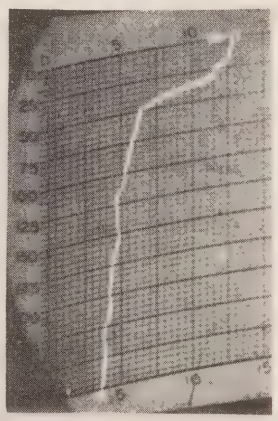

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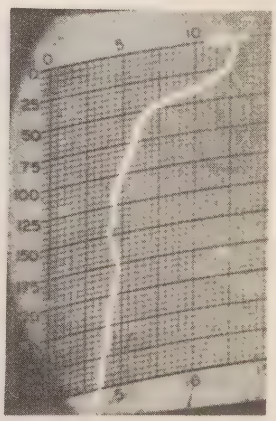

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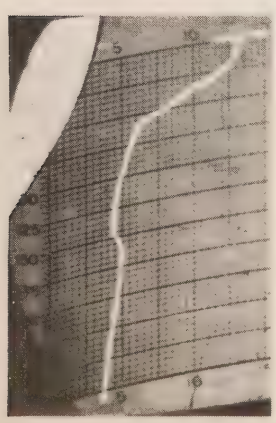

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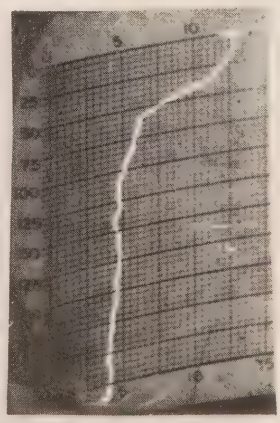

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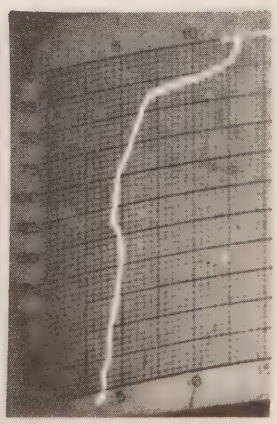

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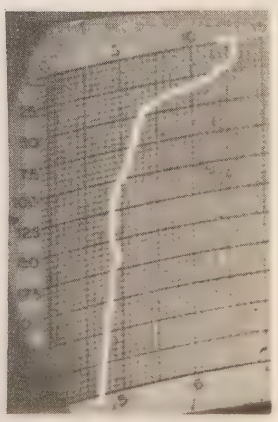

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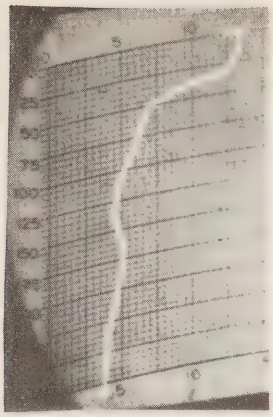

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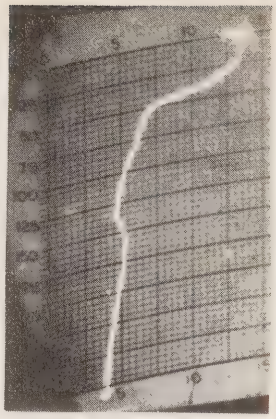

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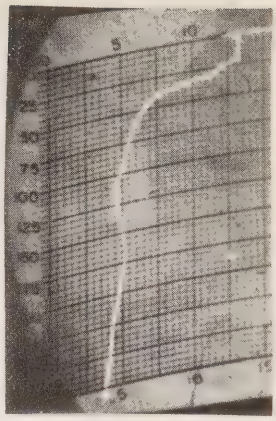

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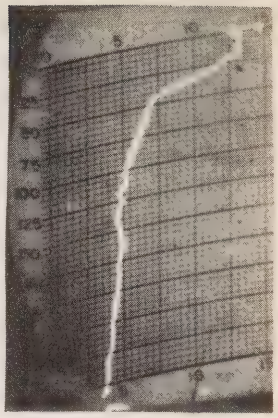

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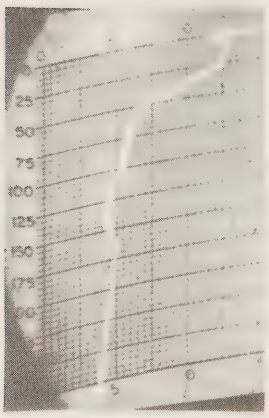

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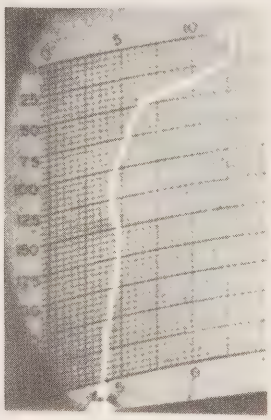

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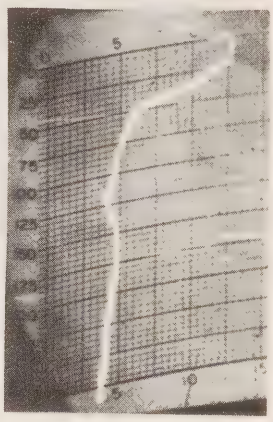

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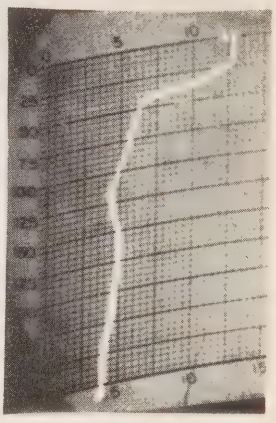

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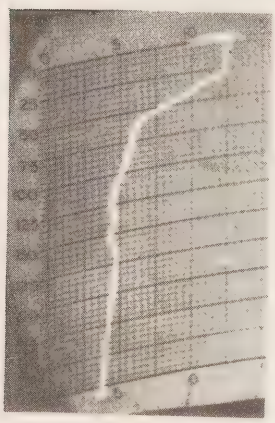

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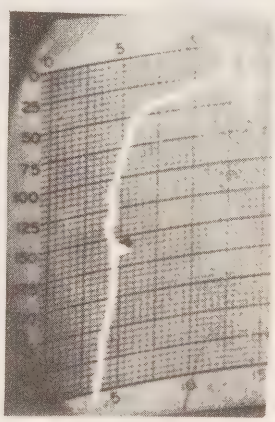

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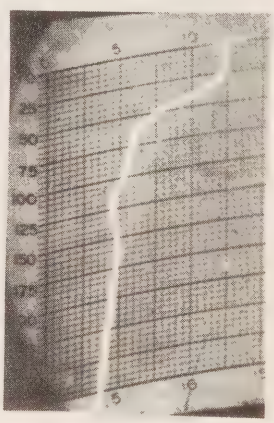

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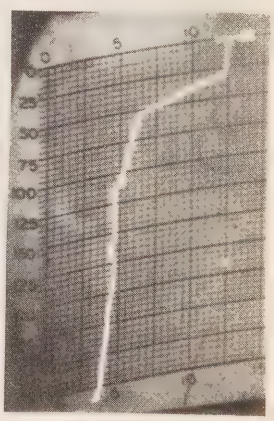

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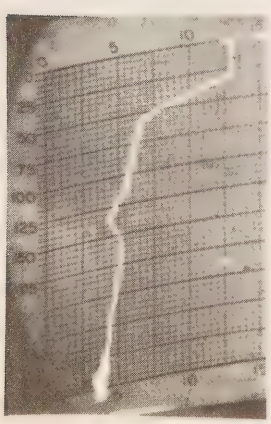

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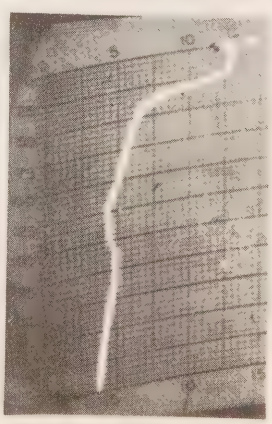

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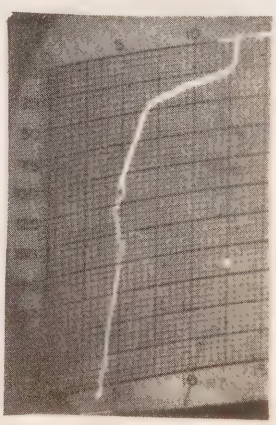

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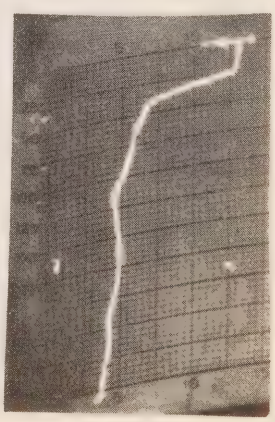

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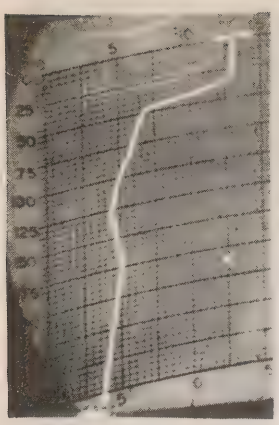

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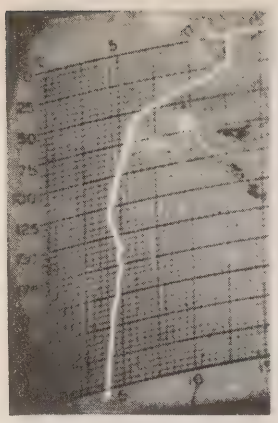

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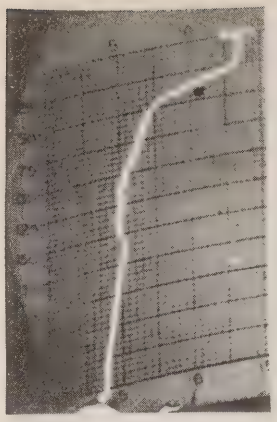

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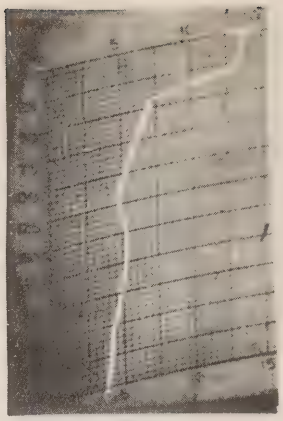

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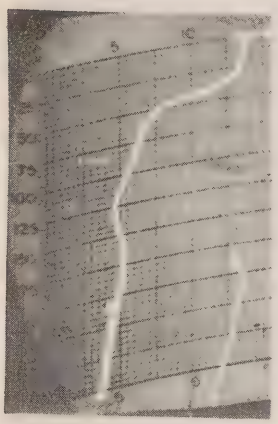

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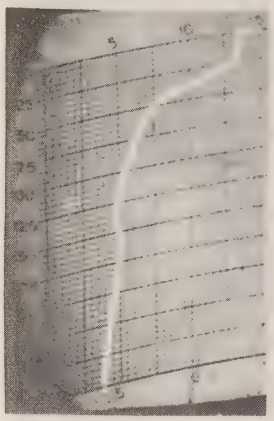

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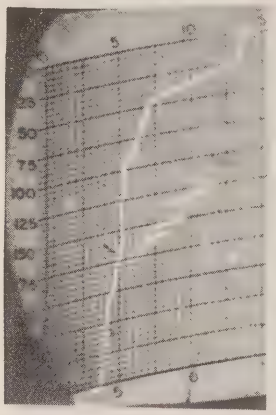

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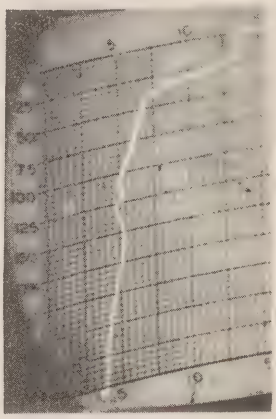

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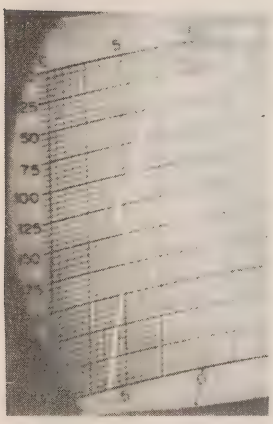

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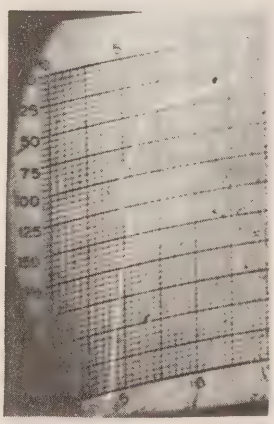

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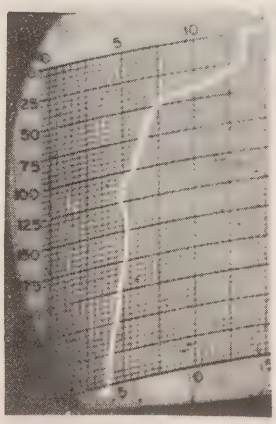

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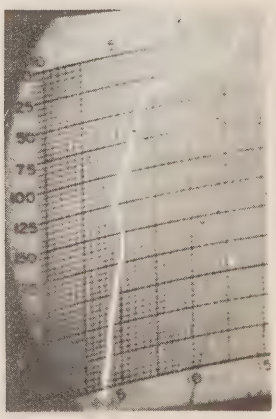

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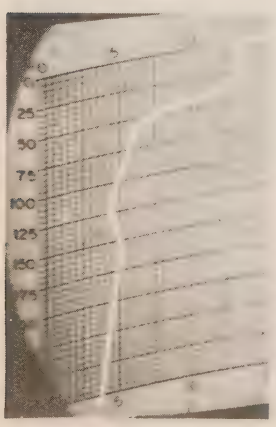

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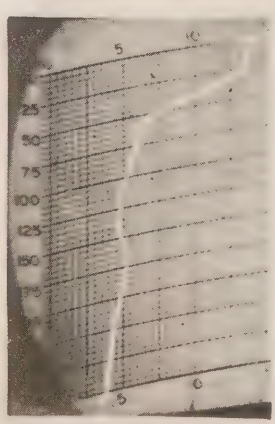

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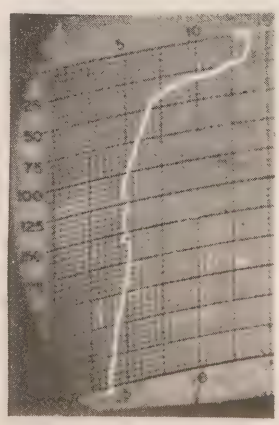

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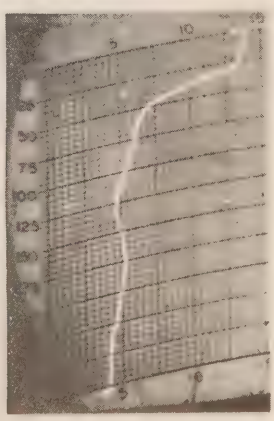

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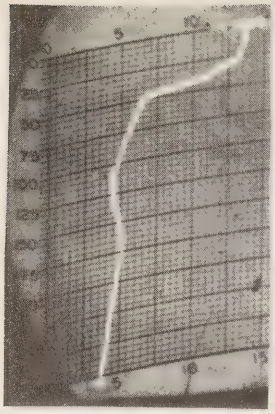

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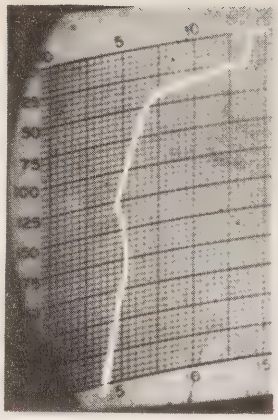

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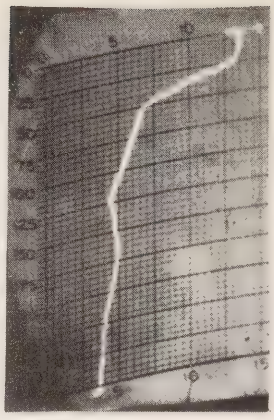

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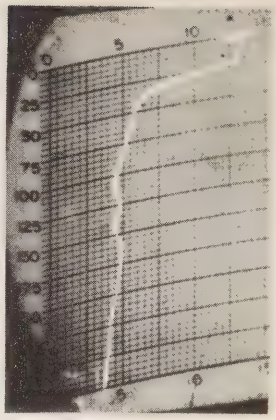

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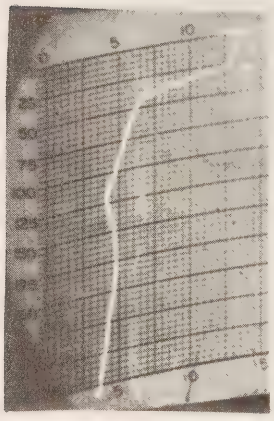

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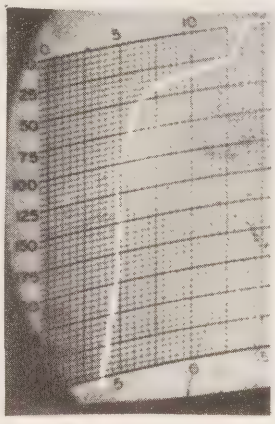

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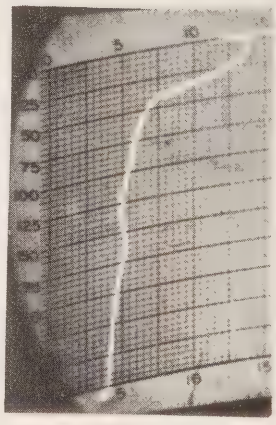

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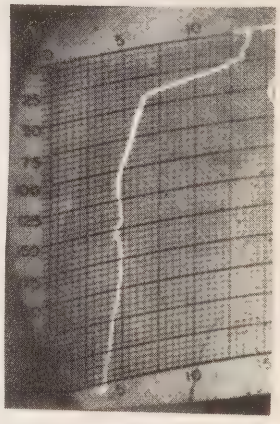

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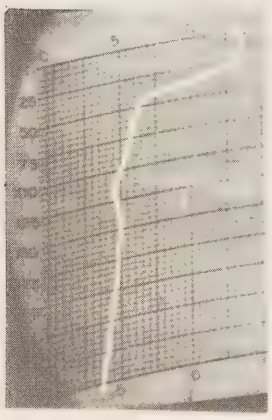

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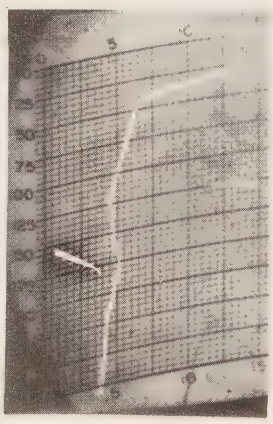

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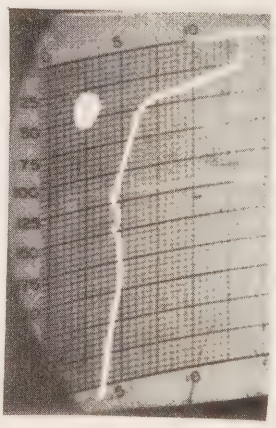

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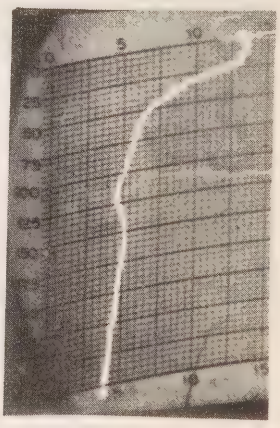

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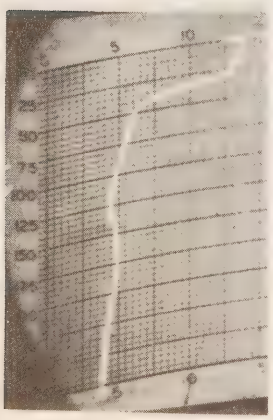

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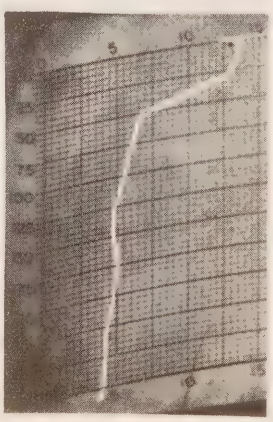

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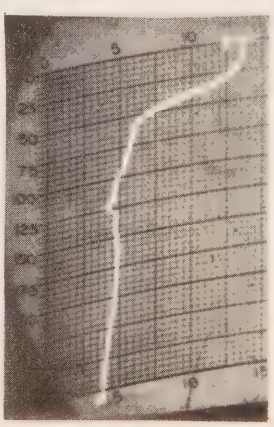

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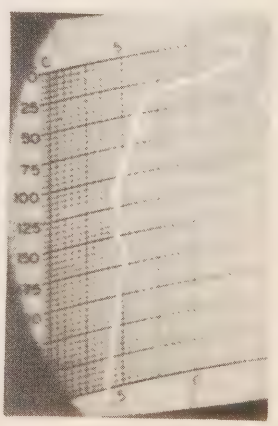

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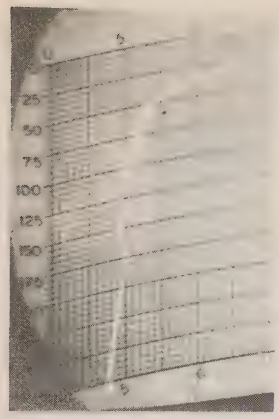

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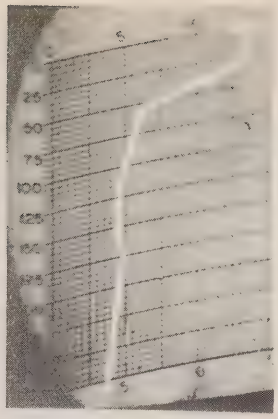

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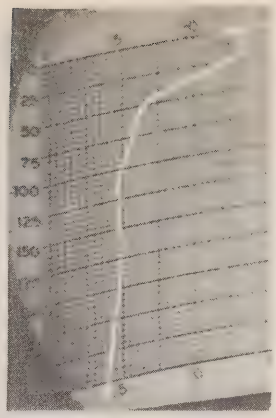

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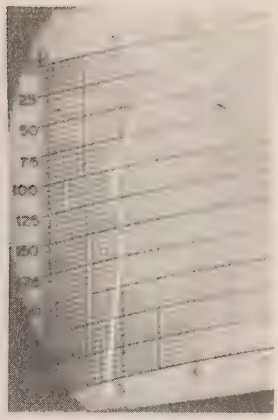

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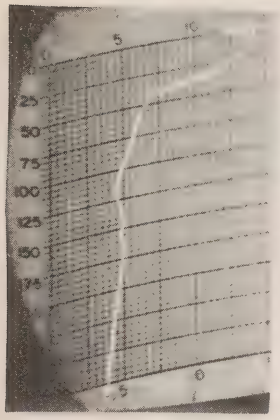

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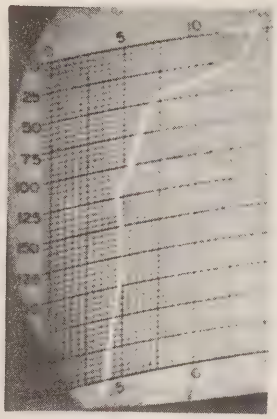

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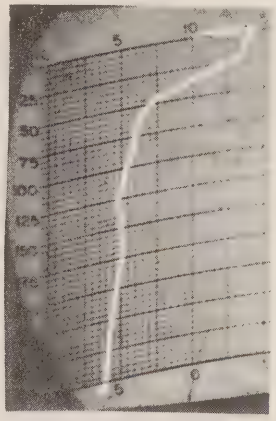

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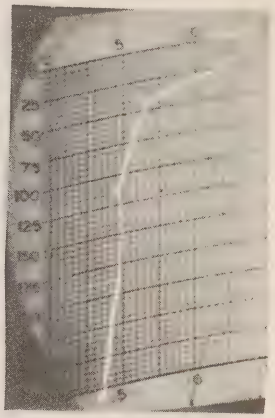

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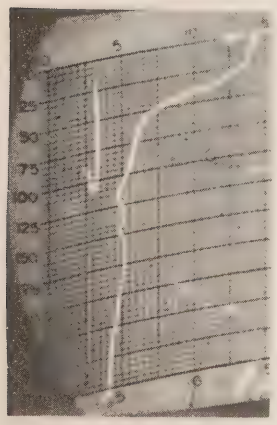

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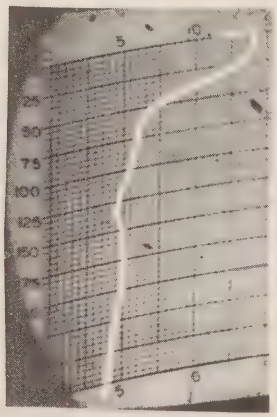

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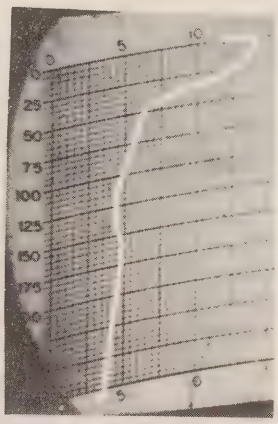

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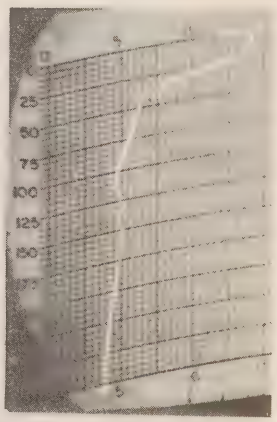

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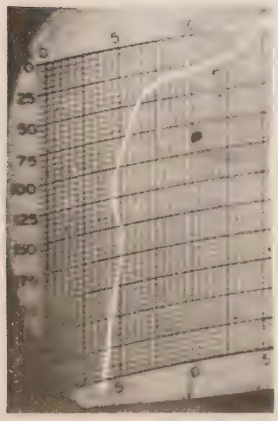

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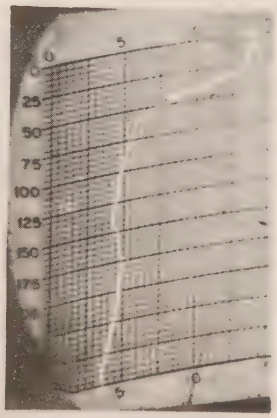

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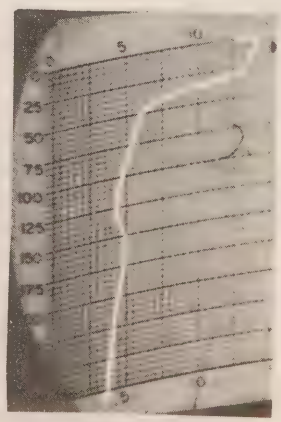

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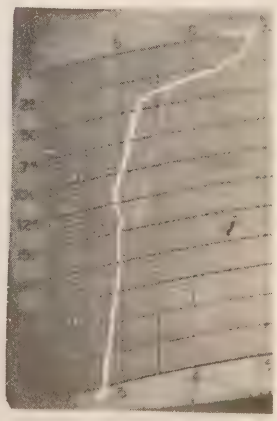

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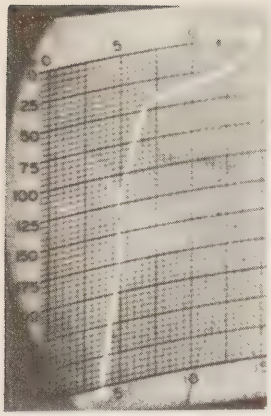

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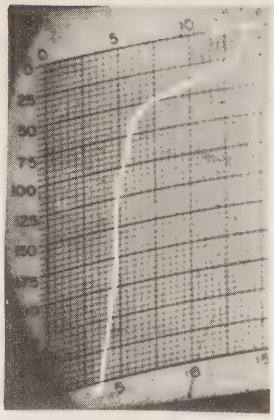

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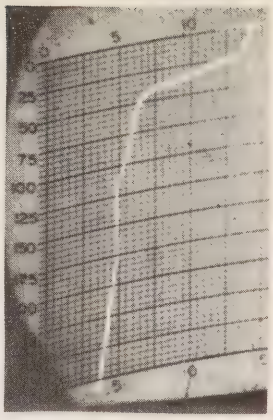

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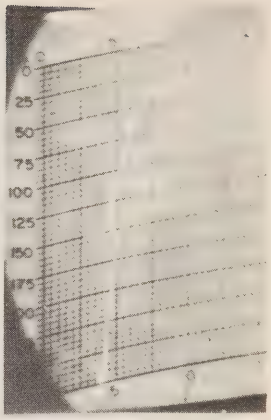

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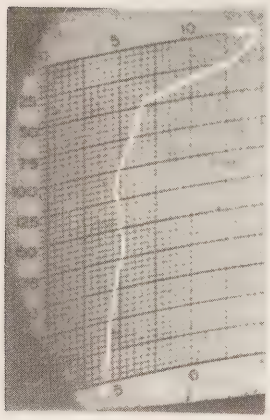

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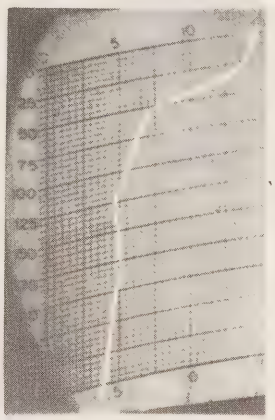

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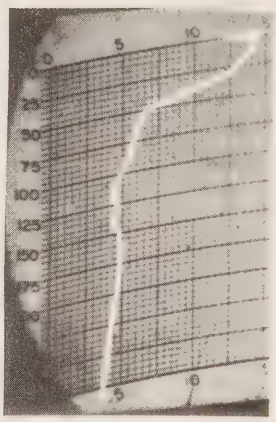

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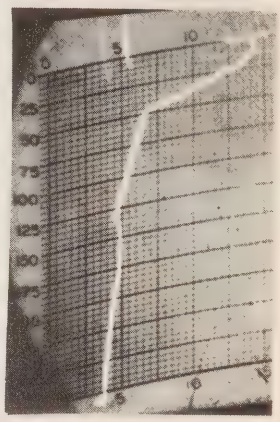

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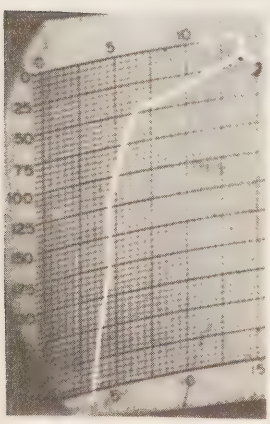

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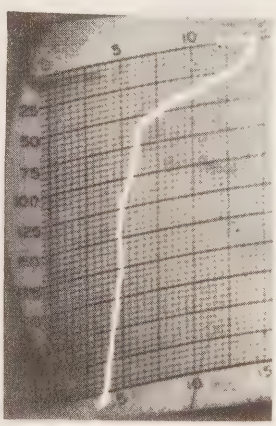

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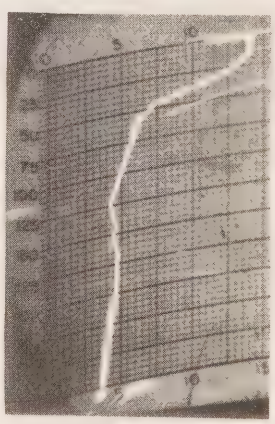

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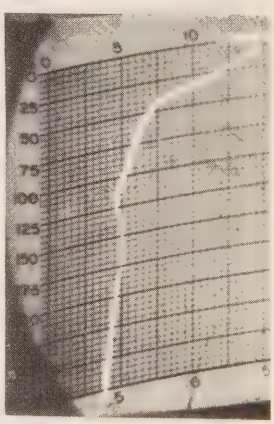

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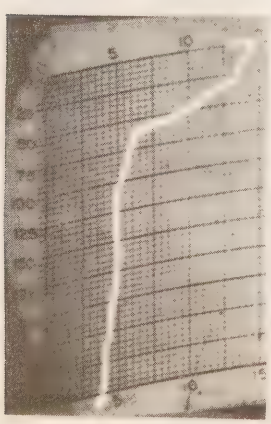

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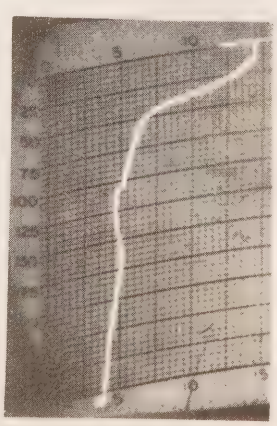

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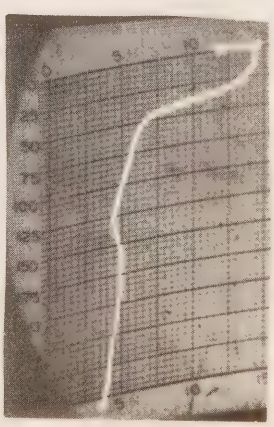

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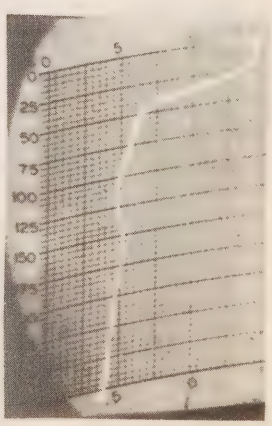

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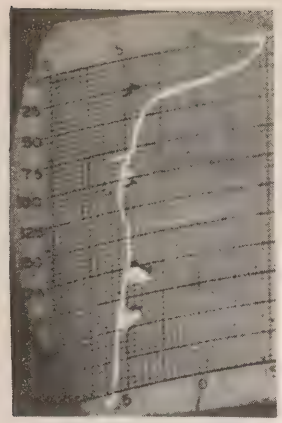

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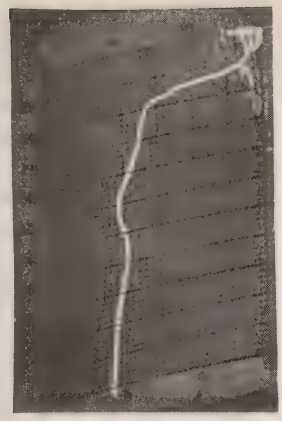

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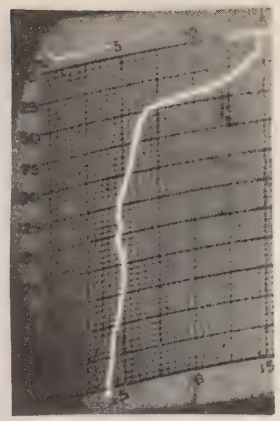

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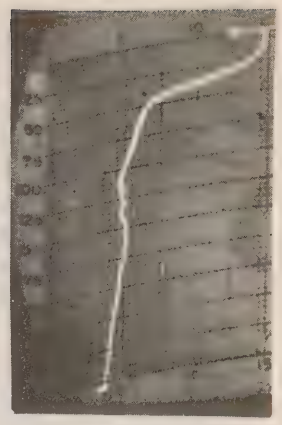

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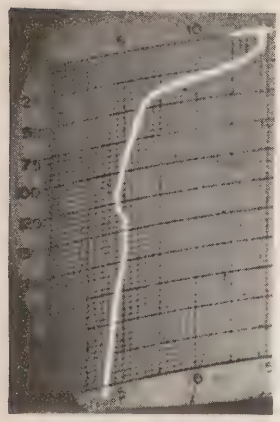

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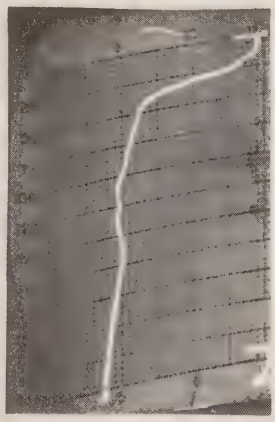

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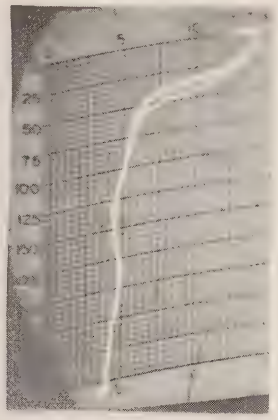

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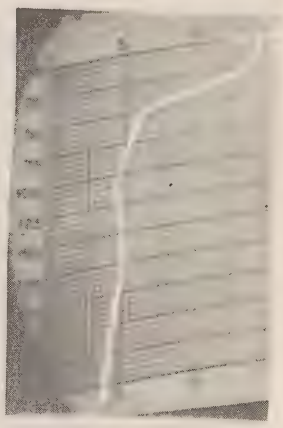

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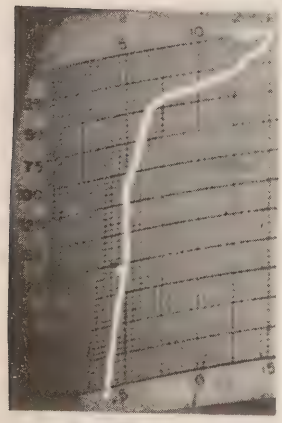

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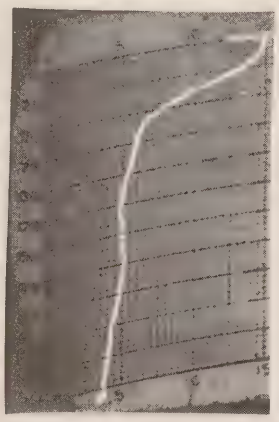

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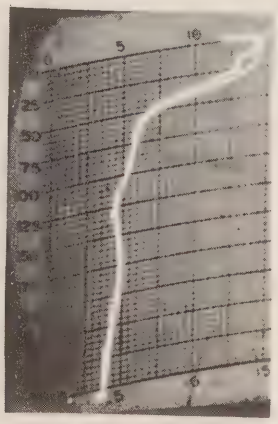

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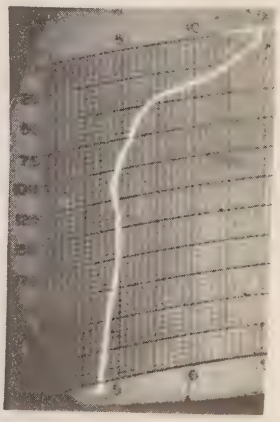

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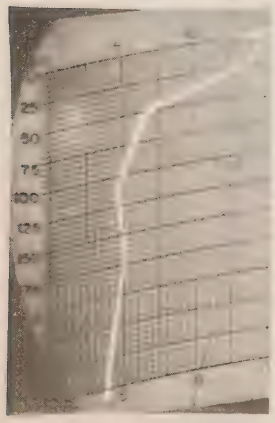

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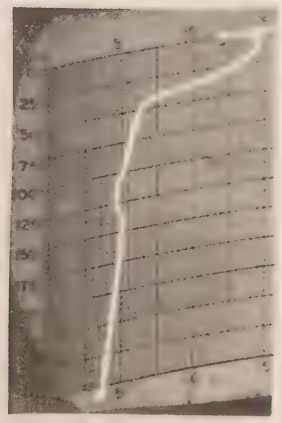

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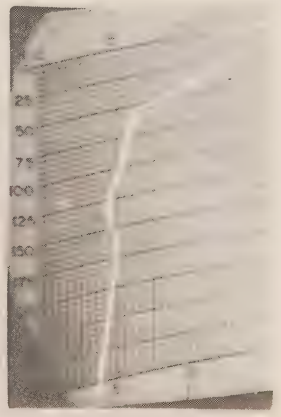

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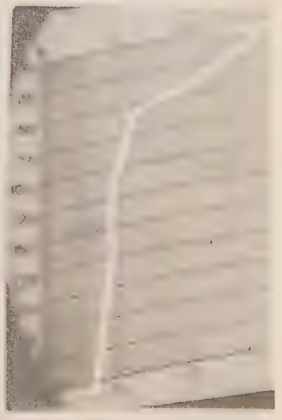

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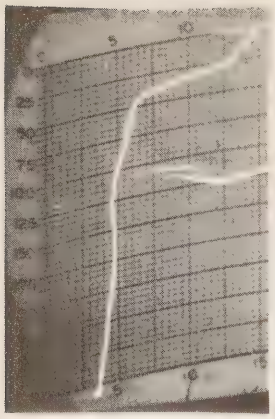

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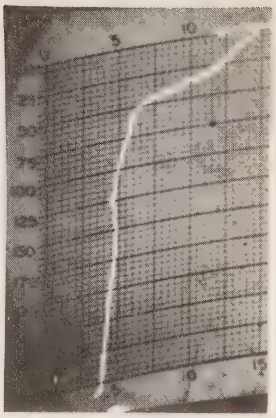

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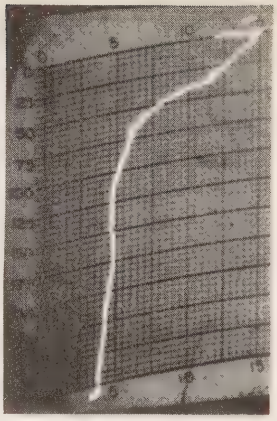

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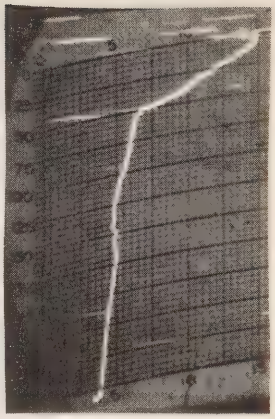

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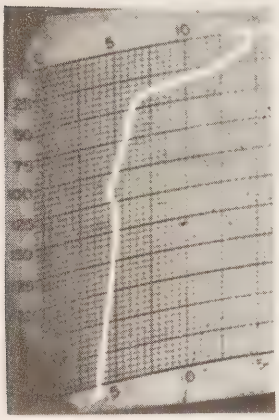

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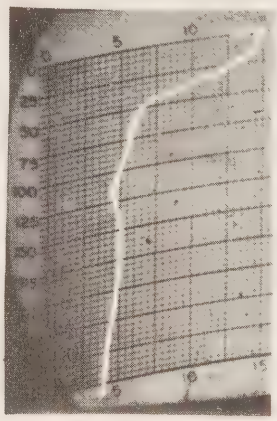

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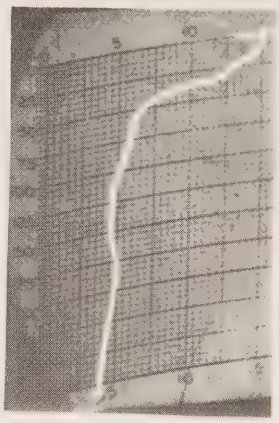

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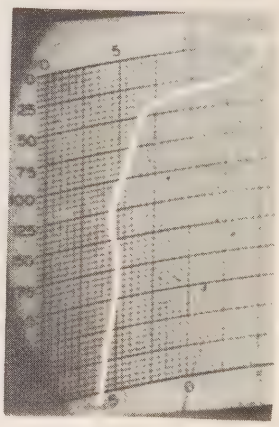
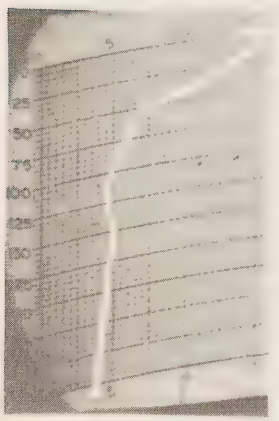
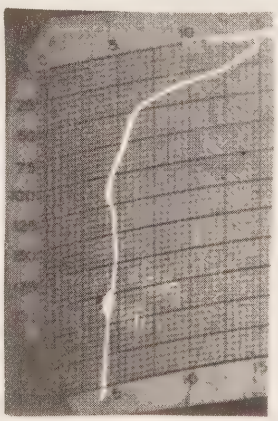


313



314



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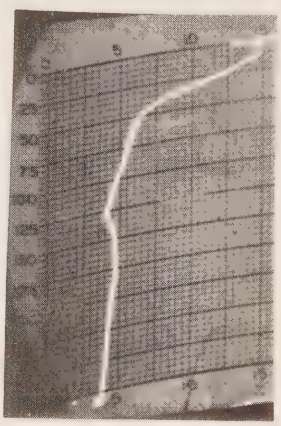

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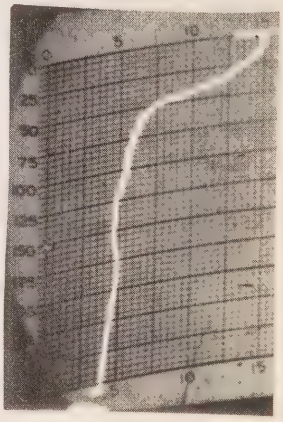

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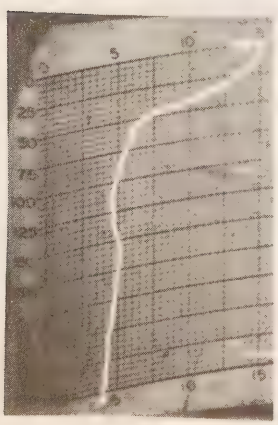

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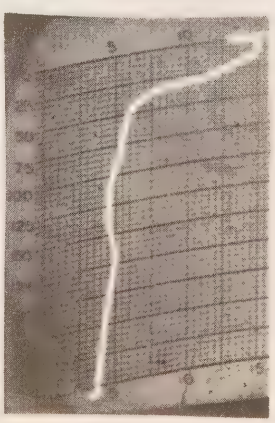

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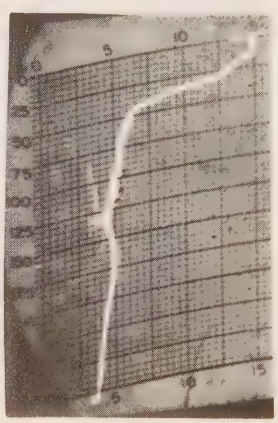

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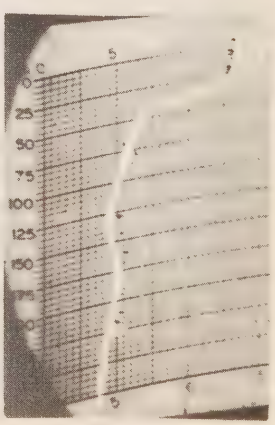

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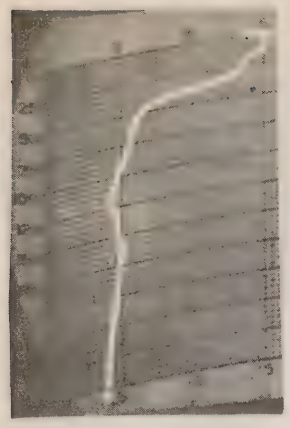

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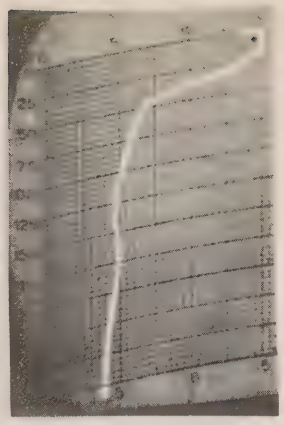

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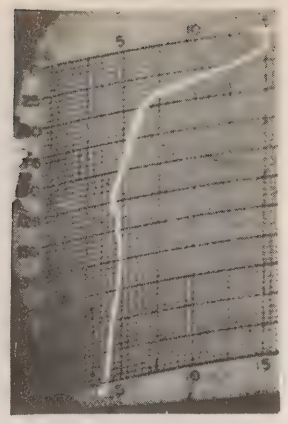

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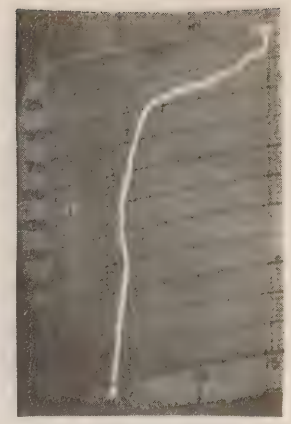

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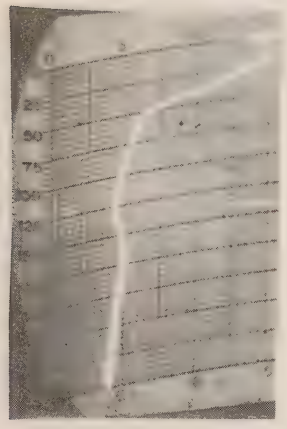

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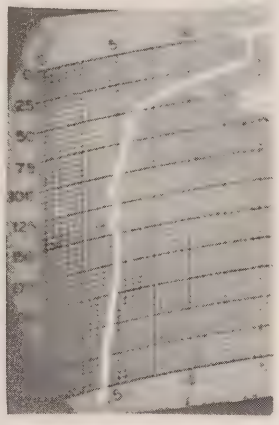

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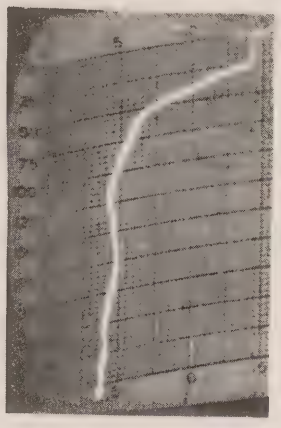

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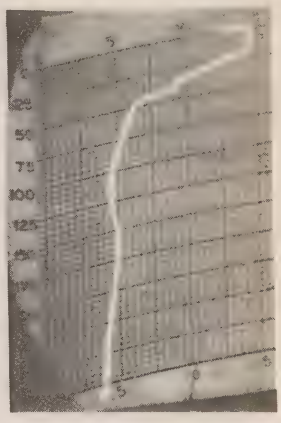

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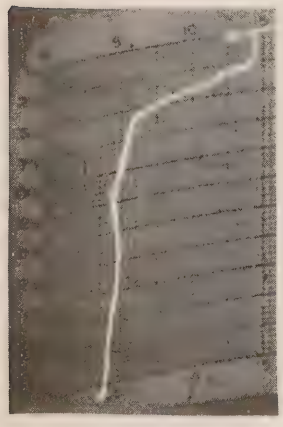

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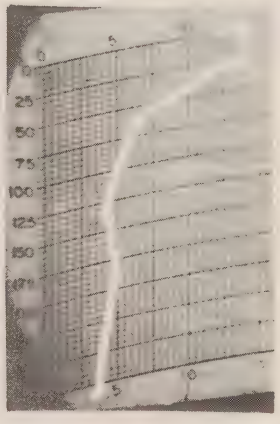

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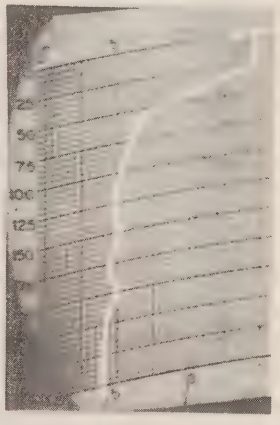

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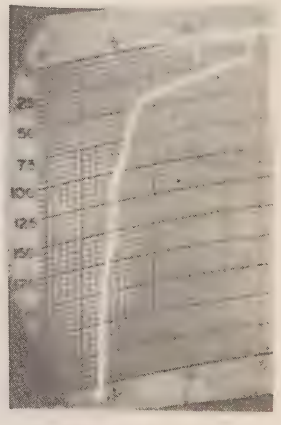

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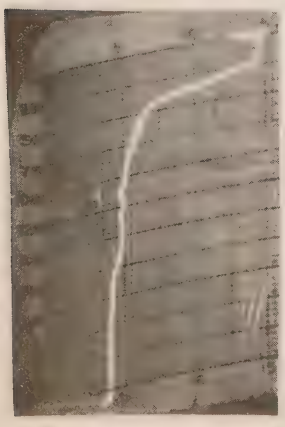

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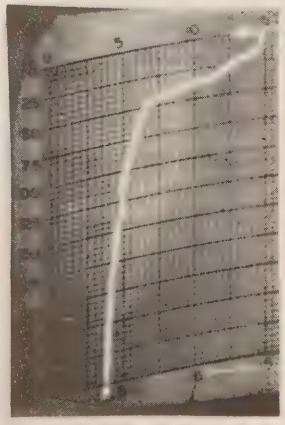

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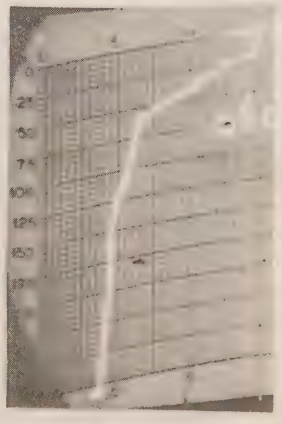

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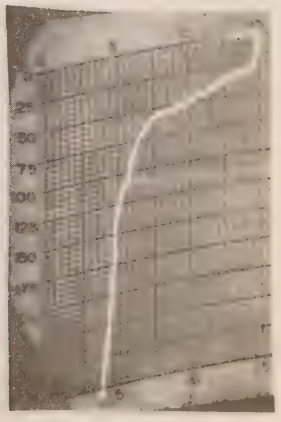

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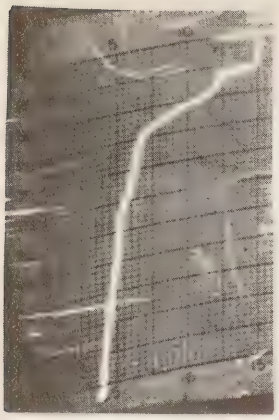

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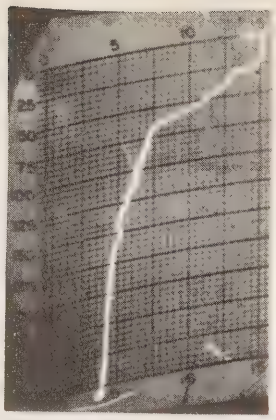

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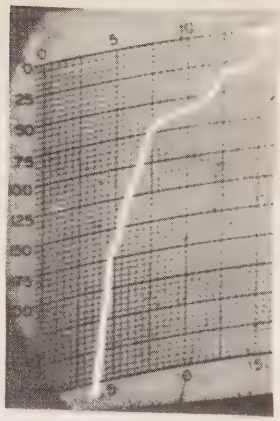

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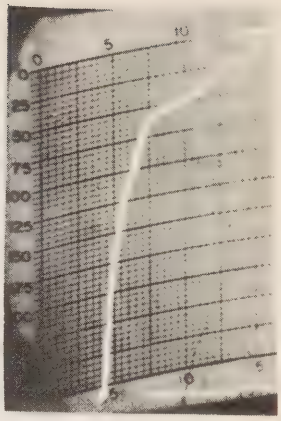

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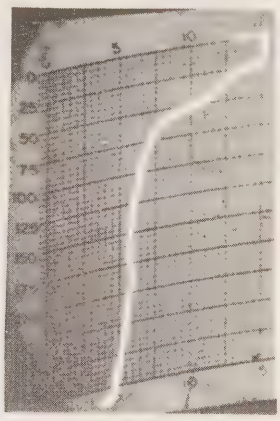

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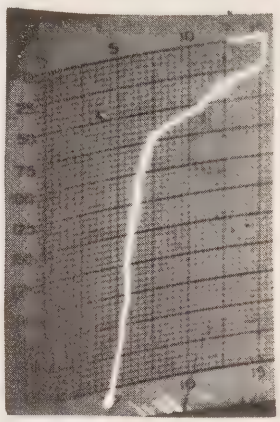

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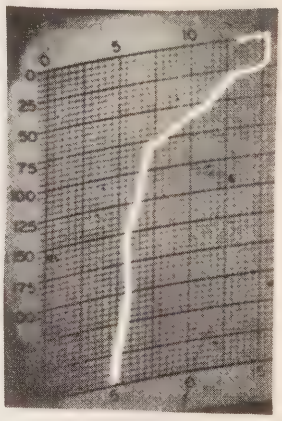

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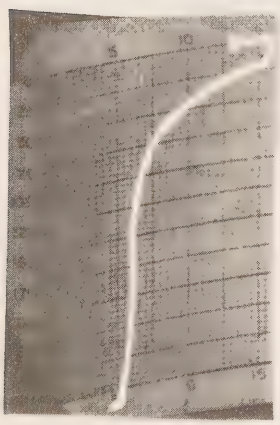

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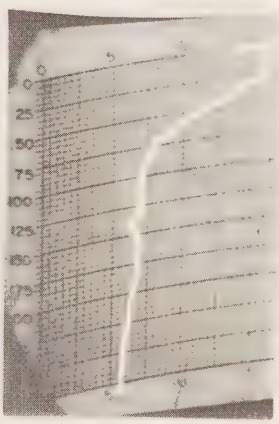

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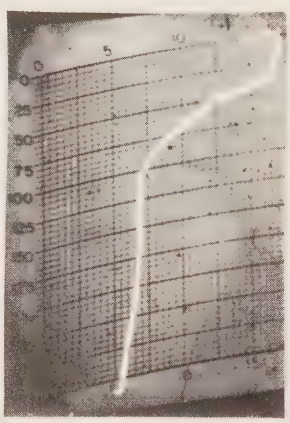

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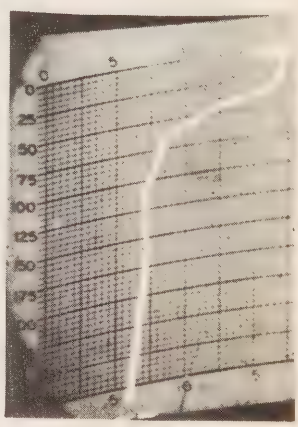

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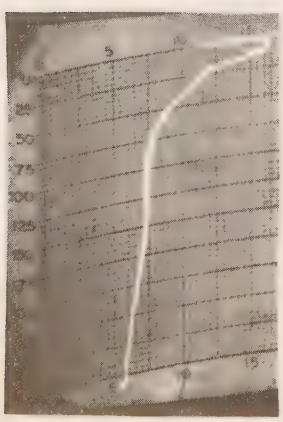

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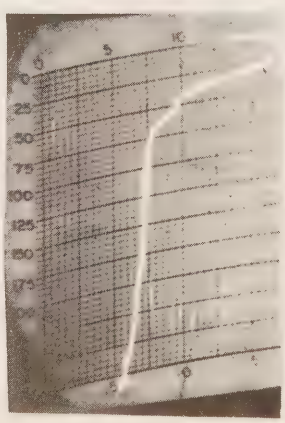

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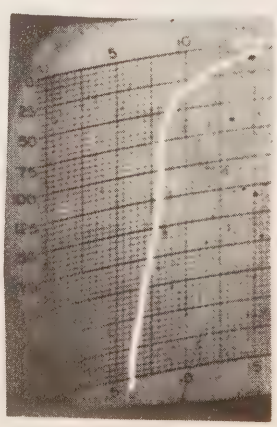

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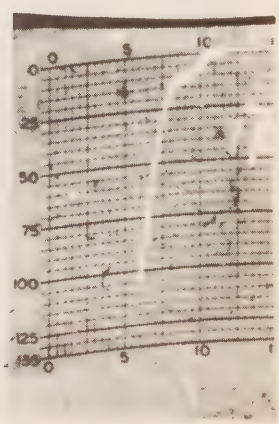

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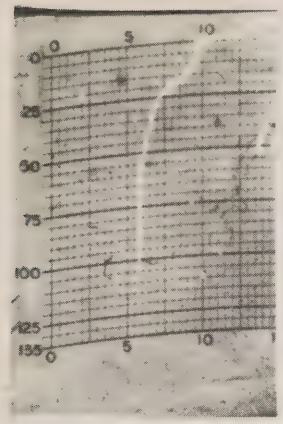


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# SECTION V

## Surface Salinity Data

P-68-2

Surface salinity observations

CCGS "VANCOUVER"

| Date-Time GMT | Position Latitude | Longitude | Salinity S ‰ |
|---|---|---|---|
| 68-05-18-02.5 | 48°33' N | 125°32' W | 31.582 |
| 18-04.4 | 48°38' | 126°00' | 31.712 |
| 18-07.1 | 48°42' | 126°40' | 30.999 |
| 18-11.0 | 48°46' | 127°40' | 32.253 |
| 18-15.0 | 48°51' | 128°40' | 32.033 |
| 18-18.0 | 48°50' | 129°40' | 32.299 |
| 18-21.2 | 49°02' | 130°40' | 31.920 |
| 19-00.8 | 49°05' | 131°40' | 32.518 |
| 19-03.0 | 49°10' | 132°40' | 32.516 |
| 19-07.0 | 49°15' | 133°40' | 32.541 |
| 19-09.0 | 49°17' | 134°40' | 32.543 |
| 19-12.8 | 49°23' | 135°40' | 32.536 |
| 19-15.6 | 49°26' | 136°40' | 32.546 |
| 19-20.2 | 49°30' | 137°40' | 32.554 |
| 19-23.6 | 49°34' | 138°40' | 32.556 |
| 20-03.0 | 49°38' | 139°40' | 32.569 |
| 20-06.2 | 49°41' | 140°40' | 32.549 |
| 20-11.6 | 49°40' | 141°40' | 32.529 |
| 20-15.0 | 49°49' | 142°40' | 32.540 |
| 20-20.1 | 49°54' | 143°40' | 32.566 |
| 22-00.0 | 49°59' | 144°59' | 32.533 |
| 24-00.0 | 50°03' | 145°05' | 32.577 |
| 25-00.0 | 50°02' | 144°59' | 32.556 |
| 26-00.0 | 49°58' | 145°04' | 32.541 |
| 27-00.0 | 50°02' | 144°58' | 32.575 |
| 28-00.0 | 50°02' | 145°01' | 32.558 |
| 29-00.0 | 50°03' | 145°05' | 32.558 |
| 30-00.4 | 49°59' | 145°00' | 32.543 |
| 31-00.0 | 50°01' | 144°59' | 32.508 |
| 68-06-01-00.0 | 49°58' | 144°43' | 32.564 |
| 02-00.9 | 50°00' | 145°08' | 32.554 |
| 03-00.5 | 49°58' | 145°01' | 32.546 |
| 04-00.0 | 50°04' | 144°58' | 32.532 |
| 05-00.0 | 50°01' | 144°58' | 32.538 |
| 06-00.0 | 50°03' | 144°57' | 32.549 |
| 07-00.0 | 49°58' | 144°59' | 32.539 |
| 08-00.0 | 50°00' | 145°05' | 32.538 |
| 09-00.0 | 50°01' | 144°53' | 32.527 |
| 10-00.0 | 49°58' | 145°06' | 32.545 |
| 11-00.0 | 48°57' | 145°00' | 32.563 |
| 12-00.0 | 49°57' | 144°56' | 32.549 |
| 14-00.0 | 49°59' | 144°56' | 32.572 |
| 15-00.0 | 49°57' | 144°51' | 32.524 |

Continued ....

P-68-2 (continued)

| Date-Time GMT | Position Latitude | Longitude | Salinity S ‰ |
|---|---|---|---|
| 68-06-16-00.0 | 49°55' N | 145°02' W | 32.524 |
| 17-00.0 | 49°55' | 145°03' | 32.536 |
| 18-00.0 | 49°59' | 145°00' | 32.550 |
| 19-00.0 | 50°00' | 145°00' | 32.526 |
| 20-00.0 | 50°01' | 144°58' | 32.536 |
| 21-00.0 | 50°04' | 144°58' | 32.532 |
| 22-00.0 | 49°58' | 145°03' | 32.550 |
| 23-00.0 | 49°59' | 145°05' | 32.557 |
| 24-00.0 | 49°57' | 145°07' | 32.507 |
| 25-00.0 | 50°03' | 145°00' | 32.593 |
| 26-00.0 | 49°54' | 145°02' | 32.507 |
| 27-00.0 | 49°55' | 145°04' | 32.536 |
| 28-00.0 | 50°06' | 145°05' | 32.554 |
| 29-00.0 | 49°57' | 144°56' | 32.540 |
| 30-00.0 | 50°04' | 144°57' | 32.460 |
| 68-07-01-15.0 | 49°38' | 139°40' | 32.484 |
| 01-22.9 | 49°30' | 137°40' | 32.444 |
| 01-18.0 | 49°40' | 138°40' | 32.613 |
| 02-02.0 | 49°26' | 136°40' | -- |
| 02-07.0 | 49°23' | 135°40' | -- |
| 02-09.9 | 49°17' | 134°40' | -- |
| 02-13.2 | 49°15' | 133°40' | 32.406 |
| 02-16.0 | 49°10' | 132°40' | -- |
| 02-19.0 | 49°05' | 131°40' | -- |
| 02-23.0 | 49°02' | 130°40' | -- |
| 03-02.6 | 48°55' | 129°40' | 32.300 |
| 03-05.1 | 48°51' | 128°40' | -- |
| 03-09.8 | 48°46' | 127°40' | 31.885 |
| 03-12.0 | 48°42' | 126°40' | 31.593 |
| 03-13.5 | 48°38' | 126°00' | 31.453 |

Patrol #4

Surface salinity observations

CCGS "QUADRA"

| Date-Time GMT | Position Latitude | Longitude | Salinity S ‰ |
|---|---|---|---|
| 68-06-28-22.4 | 48°33' N | 125°32' W | 31.142 |
| 29-00.0 | 48°48' | 126°00' | 31.561 |
| 29-15.0 | 49°00' | 130°00' | 32.154 |
| 29-18.5 | 49°05' | 131°40' | 32.492 |
| 29-21.8 | 49°09' | 132°40' | 32.338 |
| 30-01.7 | 49°15' | 133°40' | 32.488 |
| 30-04.0 | 49°18' | 134°40' | 32.521 |
| 30-07.0 | 49°22' | 135°40' | 32.504 |
| 30-10.5 | 49°26' | 136°40' | 32.460 |
| 30-14.0 | 49°30' | 137°40' | 32.493 |
| 30-16.0 | 49°35' | 138°40' | 32.509 |
| 30-20.7 | 49°38' | 139°40' | 32.478 |
| 68-07-01-00.0 | 49°42' | 140°40' | 32.360 |
| 01-03.0 | 49°45' | 141°40' | 32.459 |
| 02-15.0 | 49°49' | 142°40' | 32.417 |
| 03-00.0 | 49°58' | 145°04' | 32.553 |
| 04-00.0 | Station P | | 32.410 |
| 05-00.0 | | | 32.658 |
| 06-00.0 | | | 32.549 |
| 07-00.0 | | | -- |
| 08-00.0 | | | -- |
| 09-00.0 | | | 32.460 |
| 10-00.0 | | | 32.443 |
| 11-00.0 | | | 32.487 |
| 12-00.0 | | | 32.481 |
| 13-00.0 | | | 32.470 |
| 14-00.0 | | | 32.465 |
| 15-00.0 | | | 32.515 |
| 16-00.0 | | | 32.462 |
| 17-00.0 | | | 32.471 |
| 18-00.0 | | | 32.469 |
| 19-00.0 | | | 32.469 |
| 20-00.0 | | | 32.470 |
| 21-00.0 | | | 32.471 |
| 22-00.0 | | | 32.411 |
| 23-00.0 | | | 32.432 |
| 24-00.0 | | | 32.416 |
| 25-00.0 | | | 32.453 |
| 26-00.0 | | | 32.434 |
| 27-00.0 | | | 32.416 |
| 28-00.0 | | | 32.424 |
| 29-00.0 | | | 32.467 |
| 30-00.0 | | | 32.435 |

Continued

Patrol #4 (continued)

| Date-Time GMT | Position Latitude | Longitude | Salinity S ‰ |
|---|---|---|---|
| 68-07-31-00.0 | Station P | | 32.416 |
| 68-08-01-00.0 | | | 32.404 |
| 02-00.0 | | | 32.301 |
| 03-00.0 | | | 32.420 |
| 04-00.0 | | | 32.432 |
| 05-00.0 | | | 32.511 |
| 06-00.0 | | | 32.432 |
| 07-00.0 | | | 32.433 |
| 08-00.0 | | | 32.501 |
| 09-00.0 | | | 32.487 |
| 10-00.0 | | | 32.447 |
| 11-00.0 | | | 32.319 |
| 12-00.0 | | | 32.413 |
| 12-11.2 | 49°45' | 141°40' | 32.351 |
| 12-14.5 | 49°42' | 140°39' | 32.352 |
| 12-18.0 | 49°38' | 139°40' | 32.378 |
| 12-21.3 | 49°33' | 138°40' | 32.359 |
| 13-00.4 | 49°30' | 137°40' | 32.385 |
| 13-03.8 | 49°30' | 136°42' | 32.404 |
| 13-07.3 | 49°22' | 135°40' | 32.468 |
| 13-10.7 | 49°18' | 134°40' | 32.414 |
| 13-14.0 | 49°13' | 133°40' | 32.414 |
| 13-17.3 | 49°09' | 132°40' | 32.421 |
| 13-21.0 | 49°04' | 131°40' | 32.353 |
| 14-00.1 | 49°00' | 130°40' | 32.298 |
| 14-03.5 | 48°56' | 129°40' | 32.249 |
| 14-07.2 | 48°51' | 128°40' | 31.759 |
| 14-11.0 | 48°46' | 127°40' | 31.884 |
| 14-14.0 | 48°42' | 126°40' | 31.995 |
| 14-17.0 | 48°38' | 126°00' | 31.378 |
| 14-18.7 | 48°33' | 125°32' | 31.919 |

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